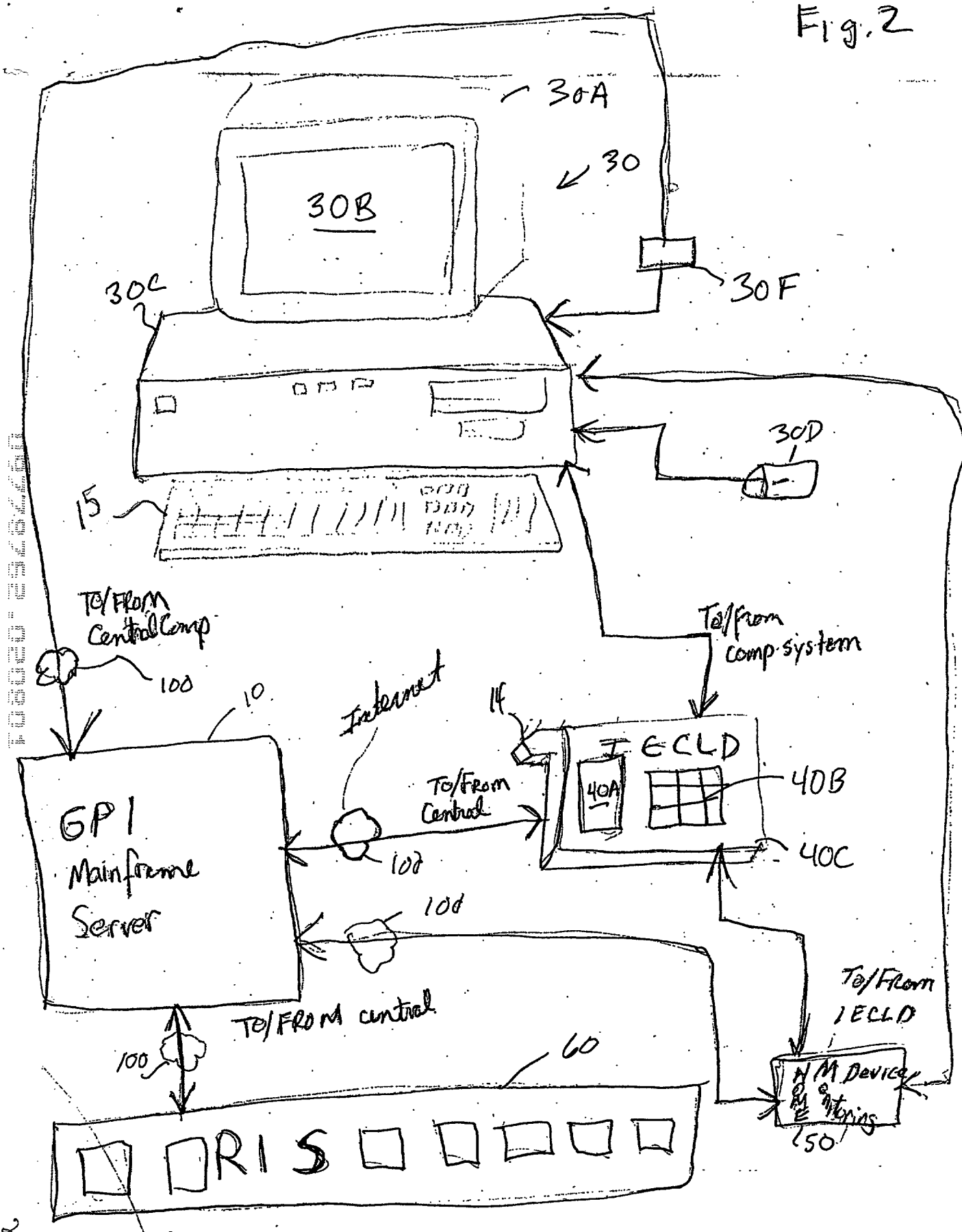


Fig. 2



00000 2322222

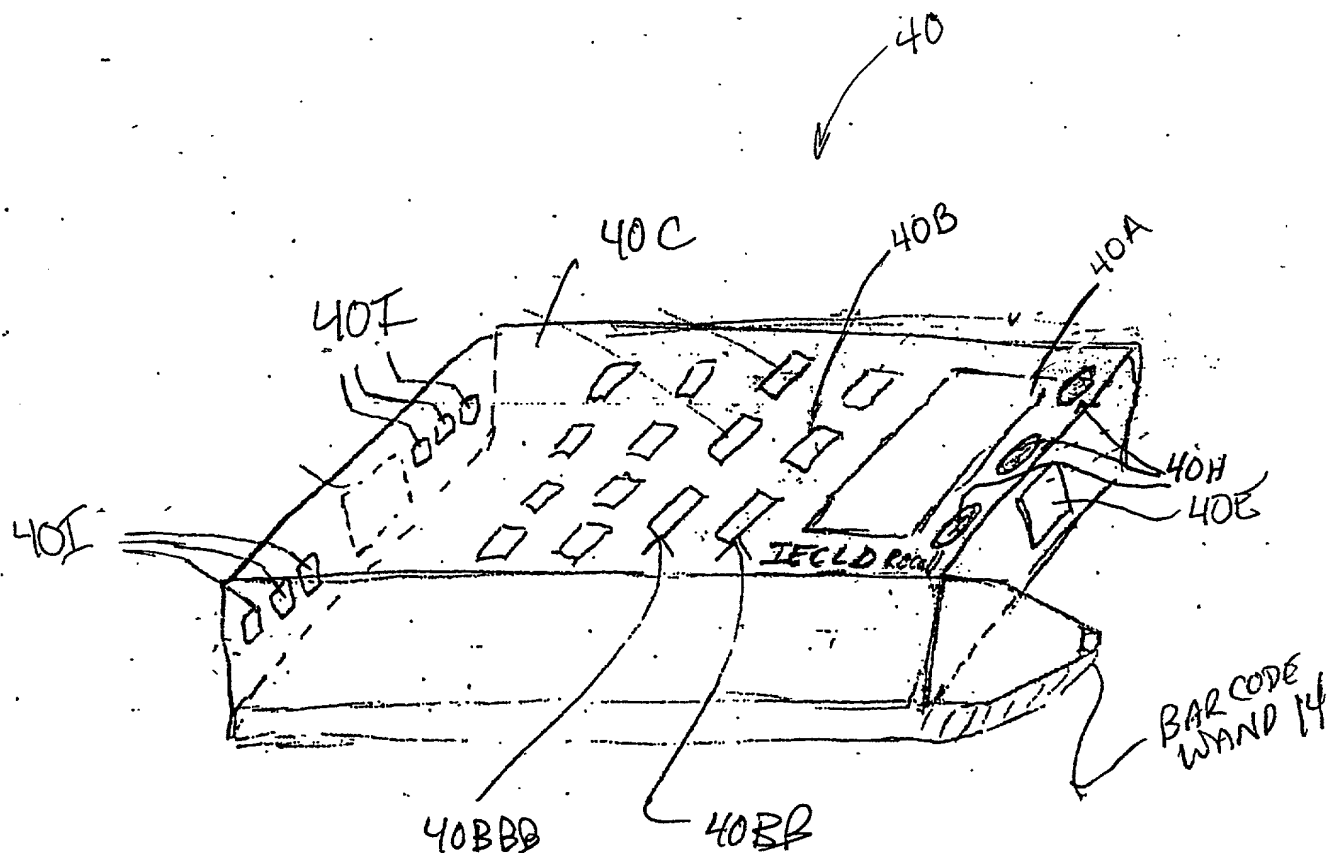
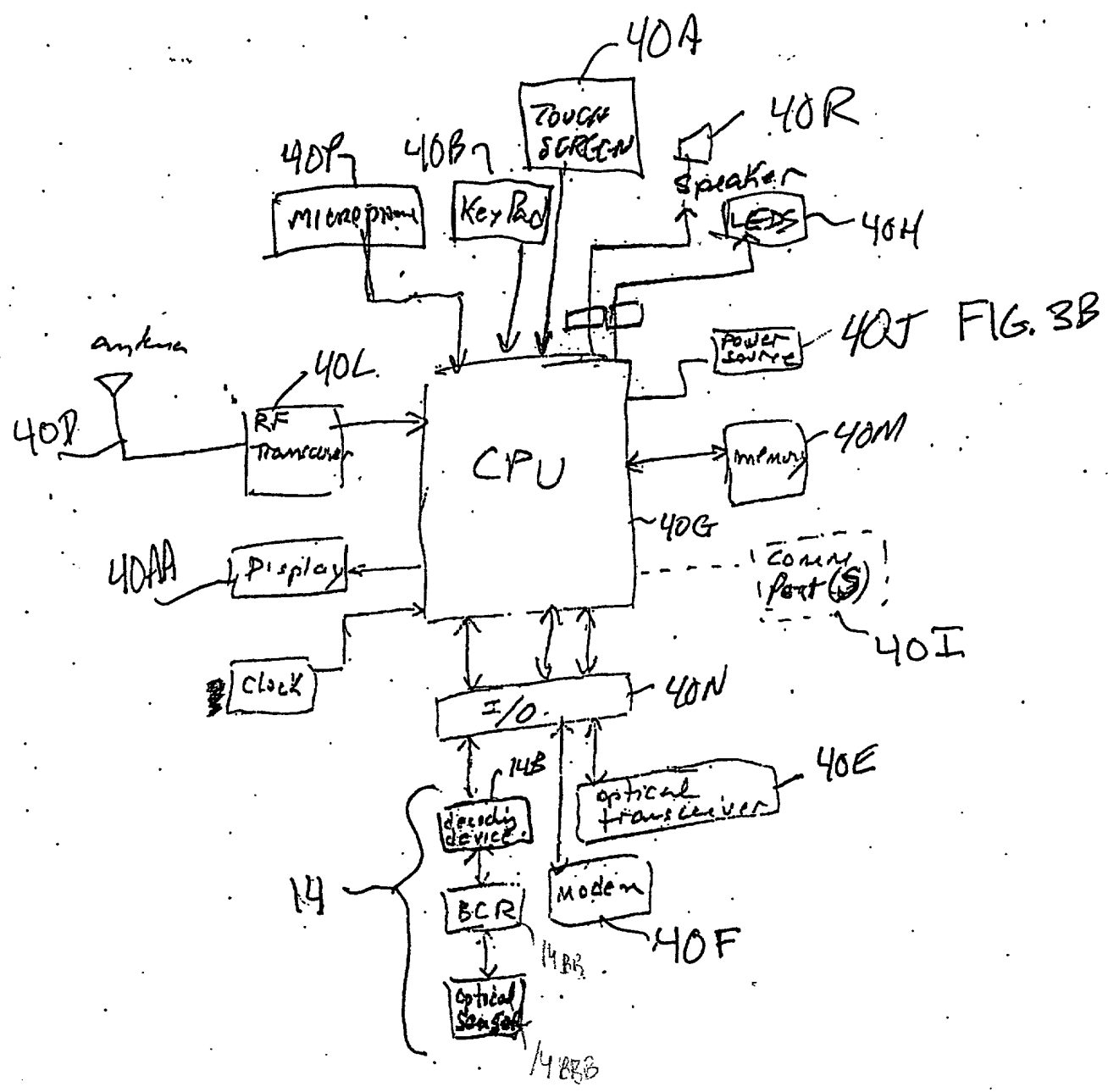


FIG. 3A

FIG. 3B



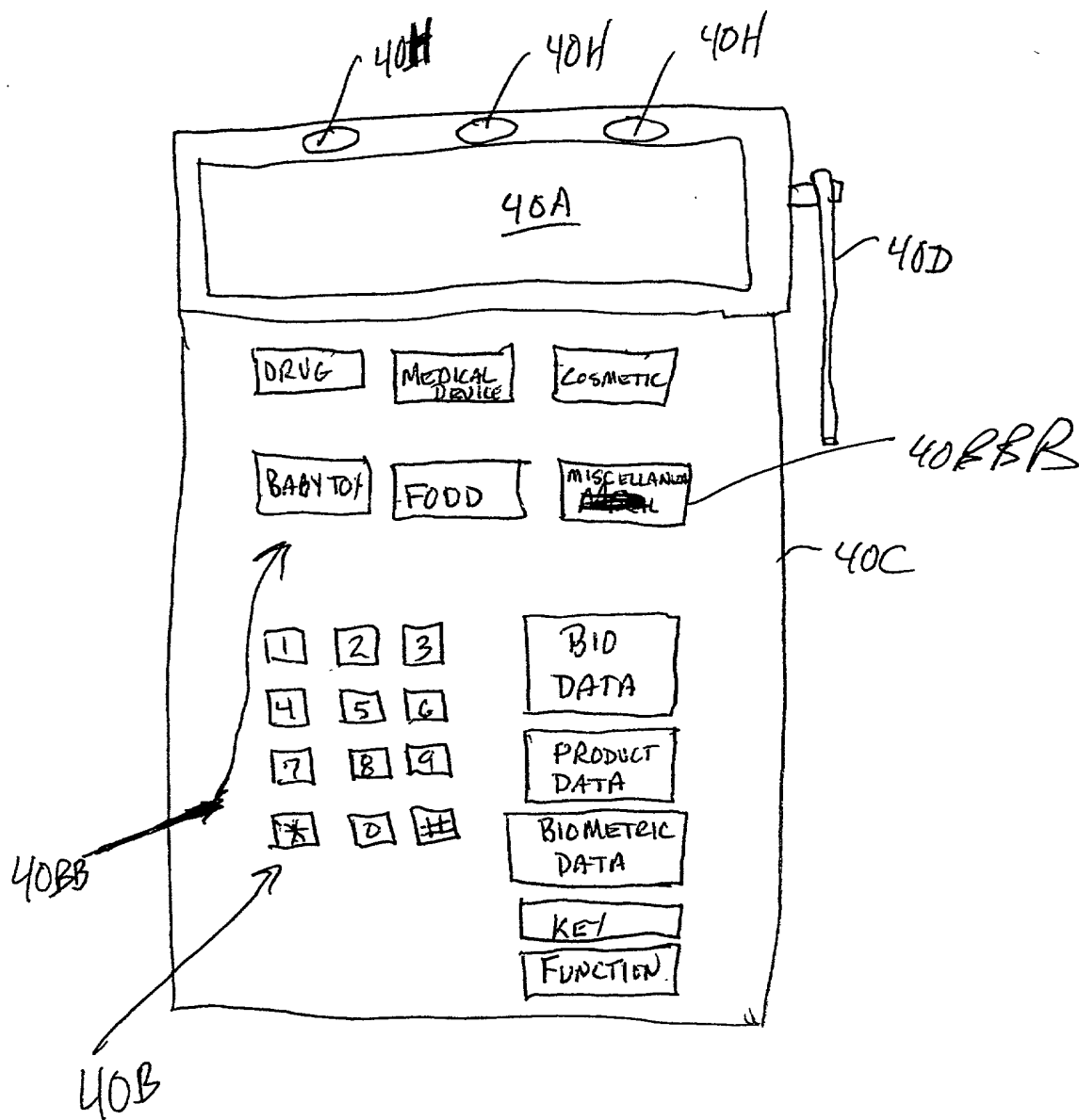
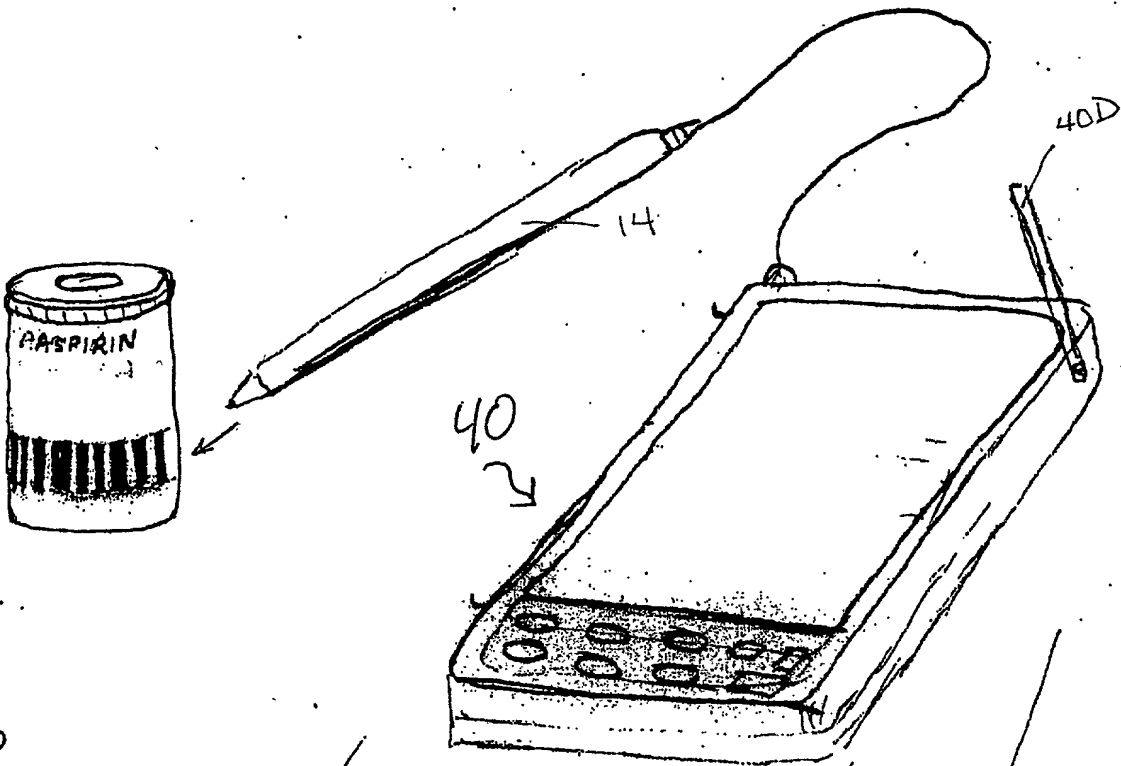


FIG. 3C

FIG 4



50

(NMD)

Tonometer
Eye Pressure
Measurement

Intelligent
Contact
Lens
Blood
Glucose
monitoring
device

Heart
Rate
and
Rhythm

Blood
Pressure

scale

Microfluidics
based ICL

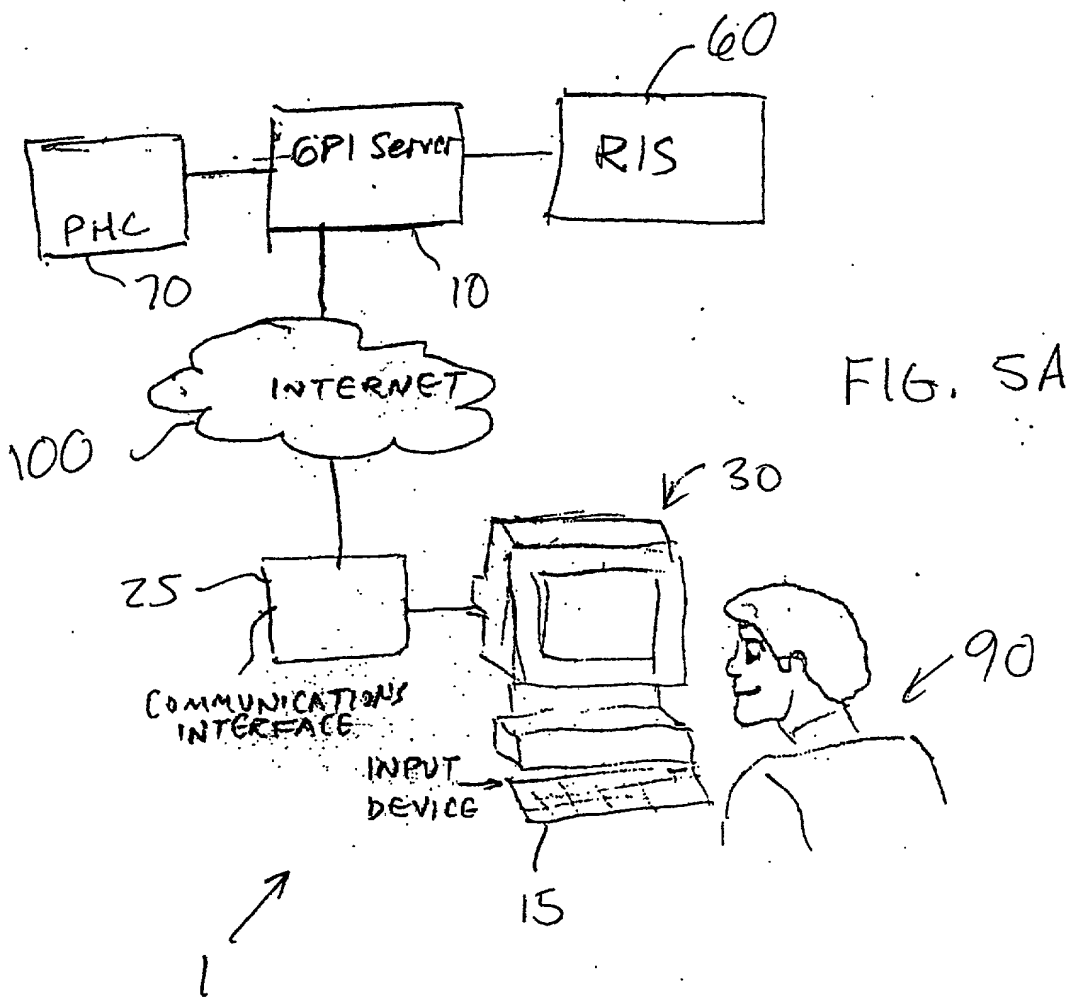


FIG. 5A

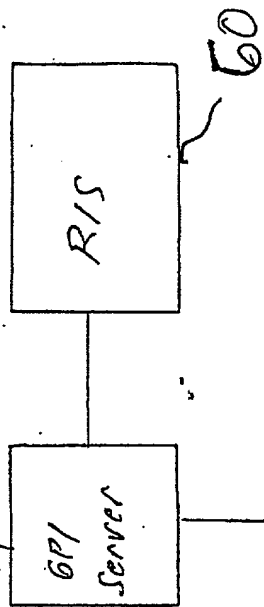
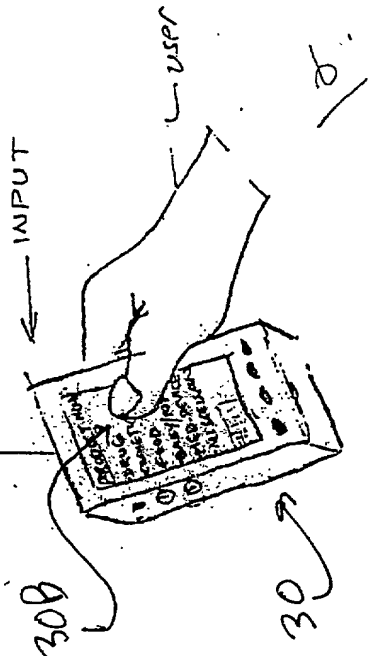
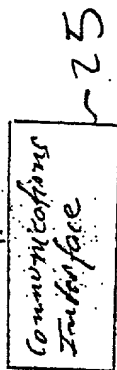


FIG. 5B



0978753-2004
00000-2528260

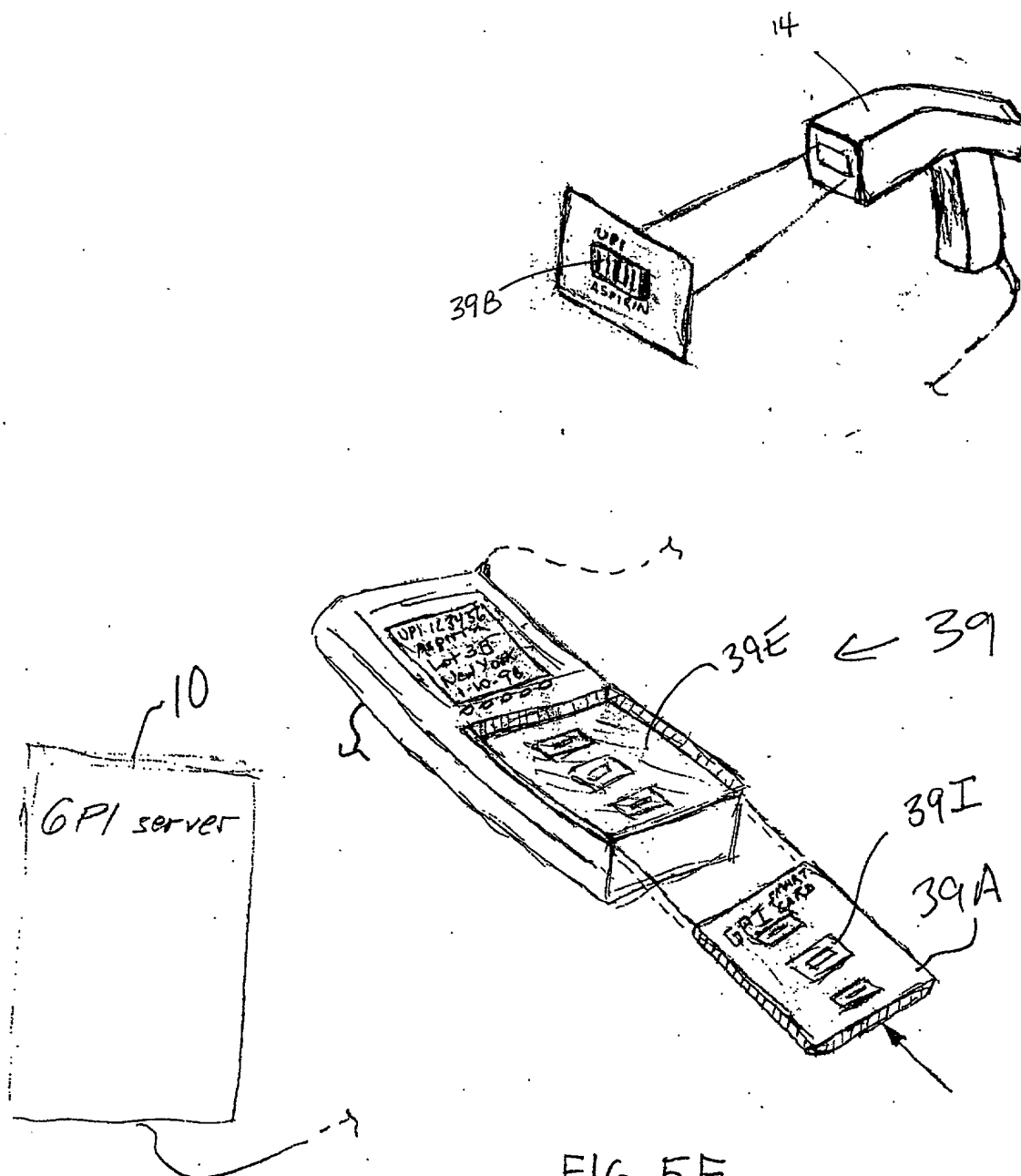
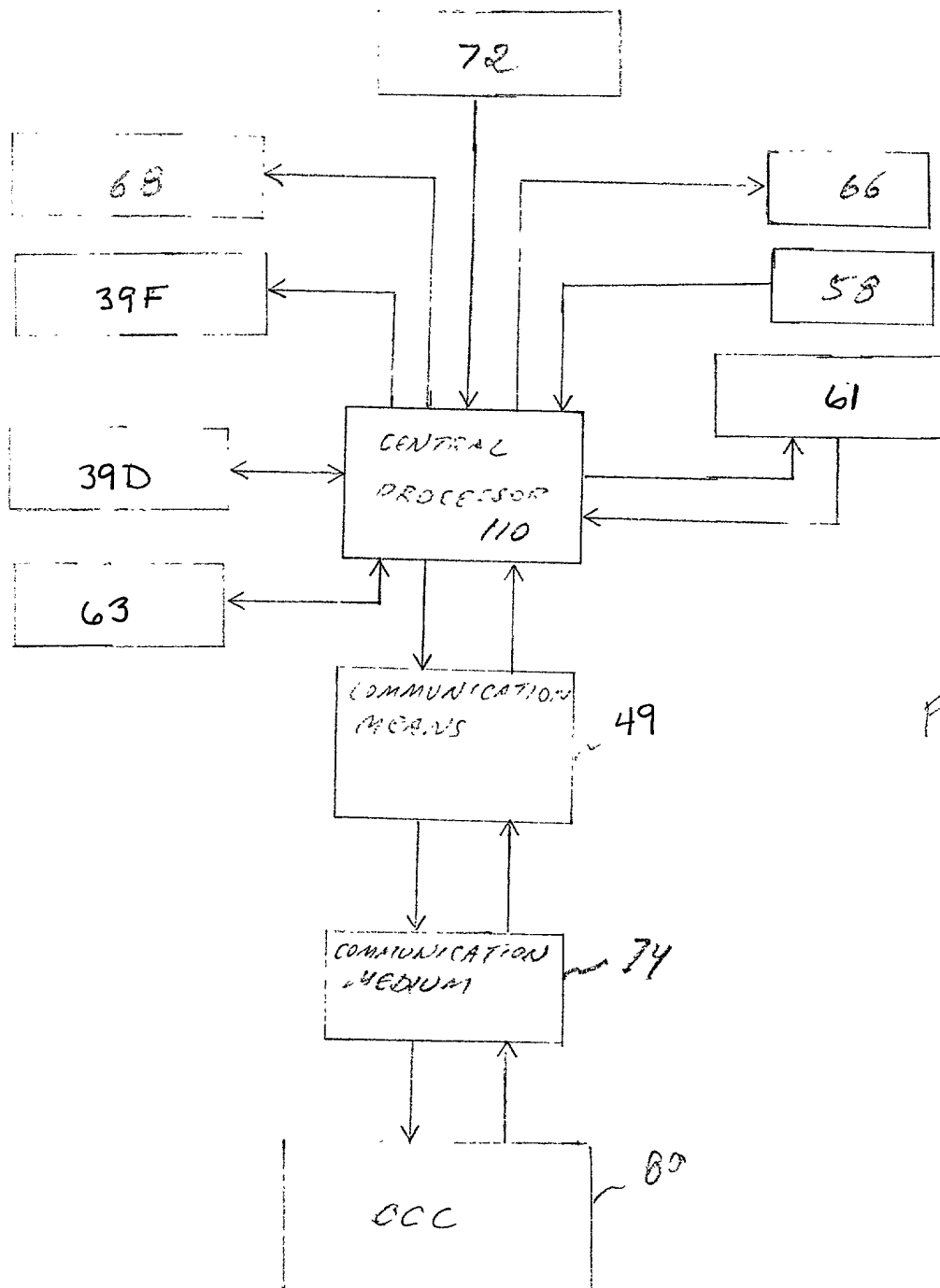
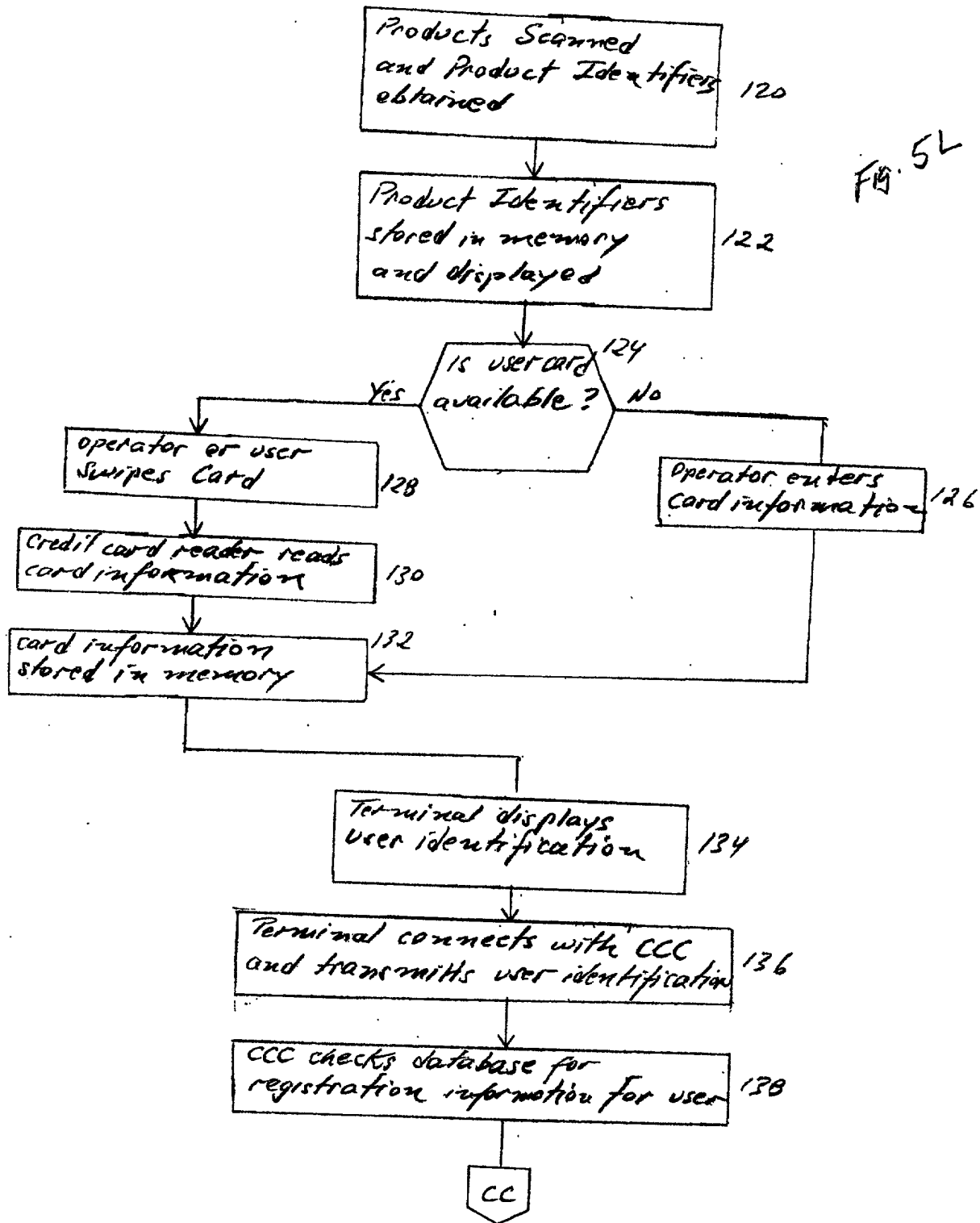


FIG. 5F

FIG. 5K





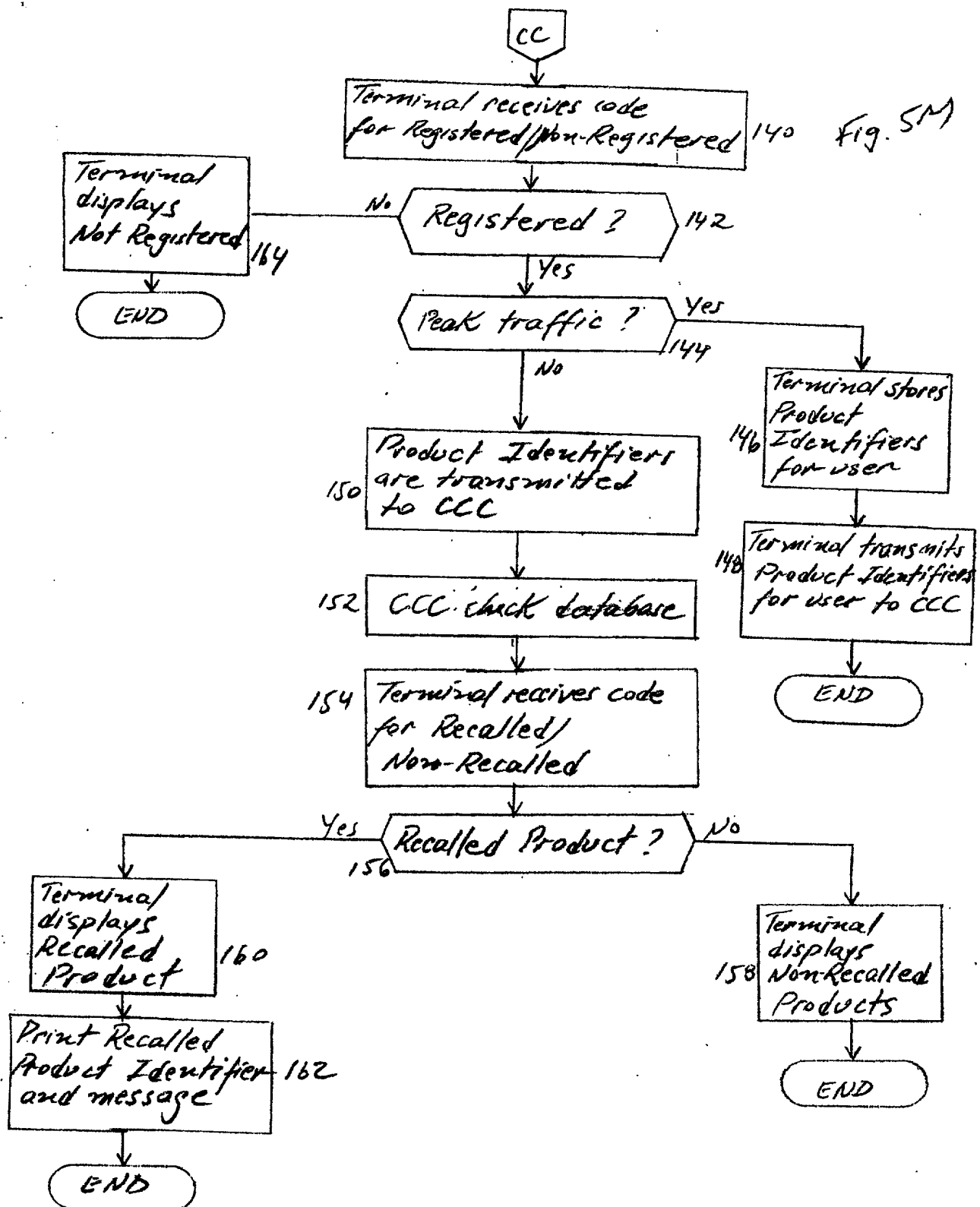


Fig 5N

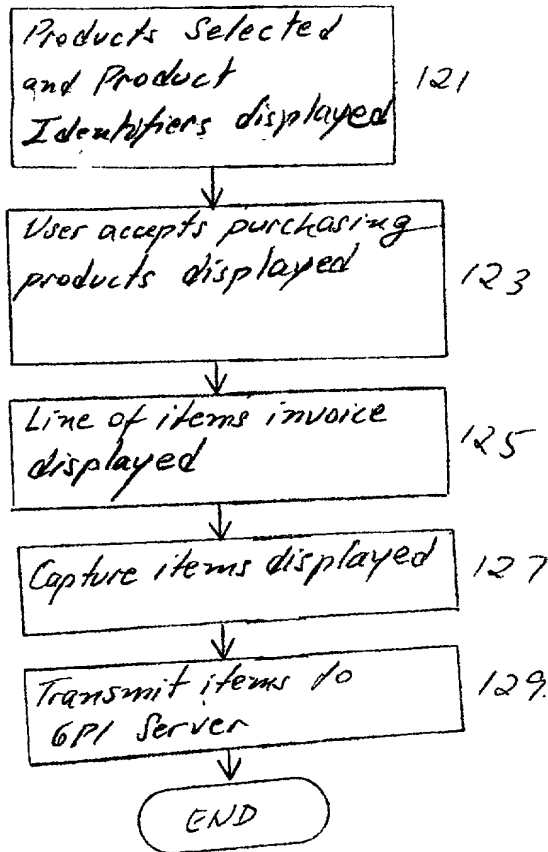


Fig 5P

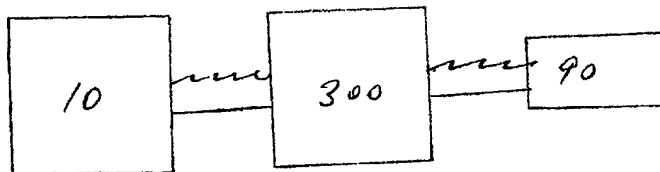


Fig 5Q

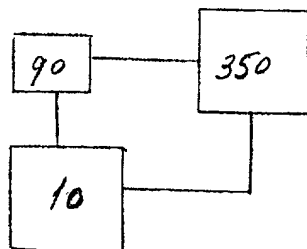


Fig 6

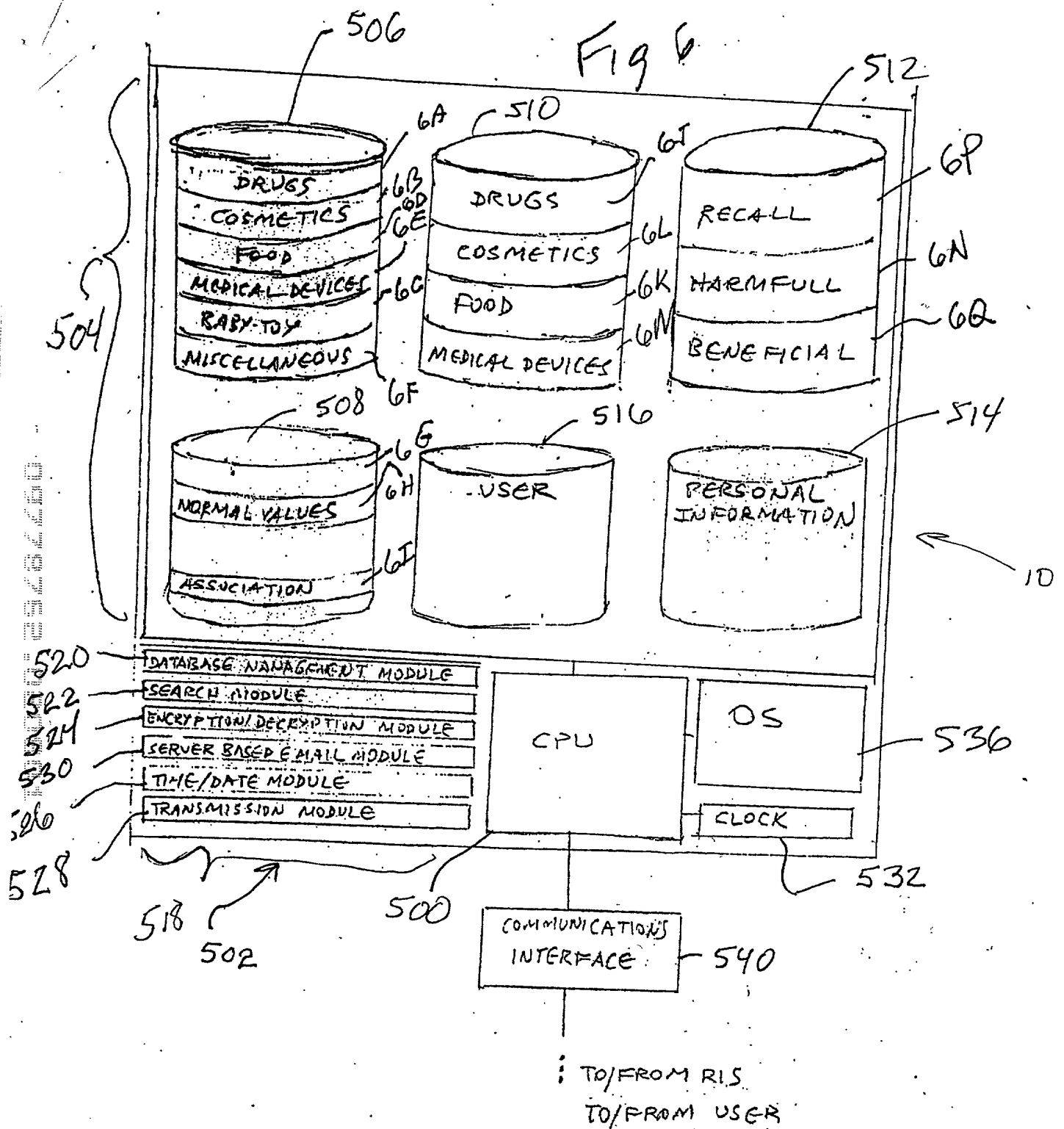


FIG. 7

7A

Welcome to GPI - FREE Web-based info

New Users
Register here

About GPI

Registered Users

Login name
[]

Password
[]

[LOGIN]

Why do sign up?
Who should sign up?
Contact us
Policy
Additional Services

If you are not registered but want to know about any warnings or recalls Click here

7B

GPI - Products: Alert and Recall

Products Used: for Mr. XYZ @ GPI.org

☐ Drugs (D1 prescription)
☐ Drugs (D2 OTC)
☐ Med. devices (M)
☐ Food (F)
☐ Cosmetics (C)
☐ Toy/Baby Products (B)
☐ Miscellaneous (M)

Product	Information
D1 - Dexfenfluramine	Recall
D1 - Lorazepam	Warning
D2 - Laxative	Recall
C - Shampoo	Recall
M - Prosthesis	Warning level
F - Canned Soup	Recall
B - Crib	Recall
M1 - Hair Dryer	Warning
D2 - Verapamil	Recall

BIOLOGICAL VARIABLES

7D

BIOLOGICAL VARIABLES Mr. XYZ

Blood Pressure: 140/90 Levels: average last 4 weeks

Eye Pressure: Right: 27 Left: 20

Temperature: 98.8 F

Weight: 200 lbs

Blood Sugar: 170

Cholesterol: 230

☐ Interaction with drugs

☐ Interaction with medical device

☐ Interaction with food

☐ Interaction with cosmetics

Search 7C

Search Product: Dexfenfluramine

☐ Drugs - Prescription (D1)
☐ Drugs - OTC (D2)
☐ Cosmetics (C)
☐ Food (F)
☐ Toy/Baby Products (B)
☐ Medical Devices (M)
☐ Miscellaneous (M1)
 M1E: electronics
 M1A: automotive
 M1H: household

7E

RECALL INFO

On September 15th, 1997, the FDA requested that the manufacturer of Dexfenfluramine, the WPA Pharmaceutical Co. voluntarily remove the above drug from the market. The removal from the market is based on findings indicating that patients taking this drug developed heart valvular disease, which may cause heart failure and put patients at risk for bacterial endocarditis. Unfortunately, some patients with heart failure who underwent surgical correction of the valvular damage died. Anyone on the drug should stop using it at once, should see a doctor and should consider an echocardiogram...

More on what precautions to take.

Appetite Suppressants. Get more info

For doctor's appointment. Click here

For echocardiogram. Click here

For insurance information. Click here

If you are registered user please check your e-mail "GPI appointment" for the appointments already scheduled and insurance approval obtained. Click here

For Support Groups. Click here

F16.8A

USER'S PERSONAL INFORMATION DB

Username X →	701	710	711	712	713	714	715	716	717	718	719	720
	A	B	C	D	E	F	G	H	I	J	K	L
Username Y →	702	711	712	713	714	715	716	717	718	719	720	
	A	B	C	D	E	F	G	H	I	J	K	L

730

PRODUCT DB

UPI	731	733
1012	UN	UN
2112	UN	UN
	UN	UN
	UN	UN
	UN	UN

740

USER'S PRODUCT USAGE DB

UN	741	746
Mr ABC @ GPI.org	0050	1234 747
Mr ABC @ GPI.org	0031	56789 748
Dr DEF @ IBM.com	UPI	UPI
Dr DEF @ IBM.com	UPI	UPI
Dr DEF @ IBM.com	UPI	UPI
Dr DEF @ IBM.com	UPI	UPI

750

DISEASE ASSOCIATION DB

EXPERT SYSTEM

BV	751	ID	752
753 Blood pressure ↑	754 Blood pressure ↓	755 Blood sugar ↑	756 Blood sugar ↓
757 Eye pressure ↑	758 Eye pressure ↓	759 Eye pressure ↑	760 Eye pressure ↓

Hypertension
Hypotension
Diabetes
Hypoglycemia
Glaucoma

760 PRODUCT INFORMATION D.B.

761

UPI GI

0031 →

762

763

764	765	766	767
CI	HD	DAR ₉	LAR ₉

768

PI

FIG. 8B

769 0041

:

830	833	834	835	836
UPI	WM	HD	DAR ₉	LAR ₉
831-dry M				
832 food F				

770 BIOLOGICAL VARIABLES D.B.

771

UN

772 MrABC@CPI.org →

774

PAR.

777 Eye Pressure

778 Glucose

779 Liver Enzymes

780 Triglycerides

781 Weight

775

VA

776

DA

most recent

least recent

773

MrABC@CPI.org →

File
80

TABLE 23600

790

ALERT DB

791	UPI	794	A.I.	795	HD	796	AL
792	0051						

797	CI	798	HD	799	DAR	800	LAR

801

PIE

802 803 804

Name	M	I	S	R	R	Message	Dir

793 0022 →

⋮

805	UPI	806	WM	807	HD	808	DAR	809	LAR
810	drug A								
811	drug B								
812	food E								
813	cosmetic X								

FIG. 9

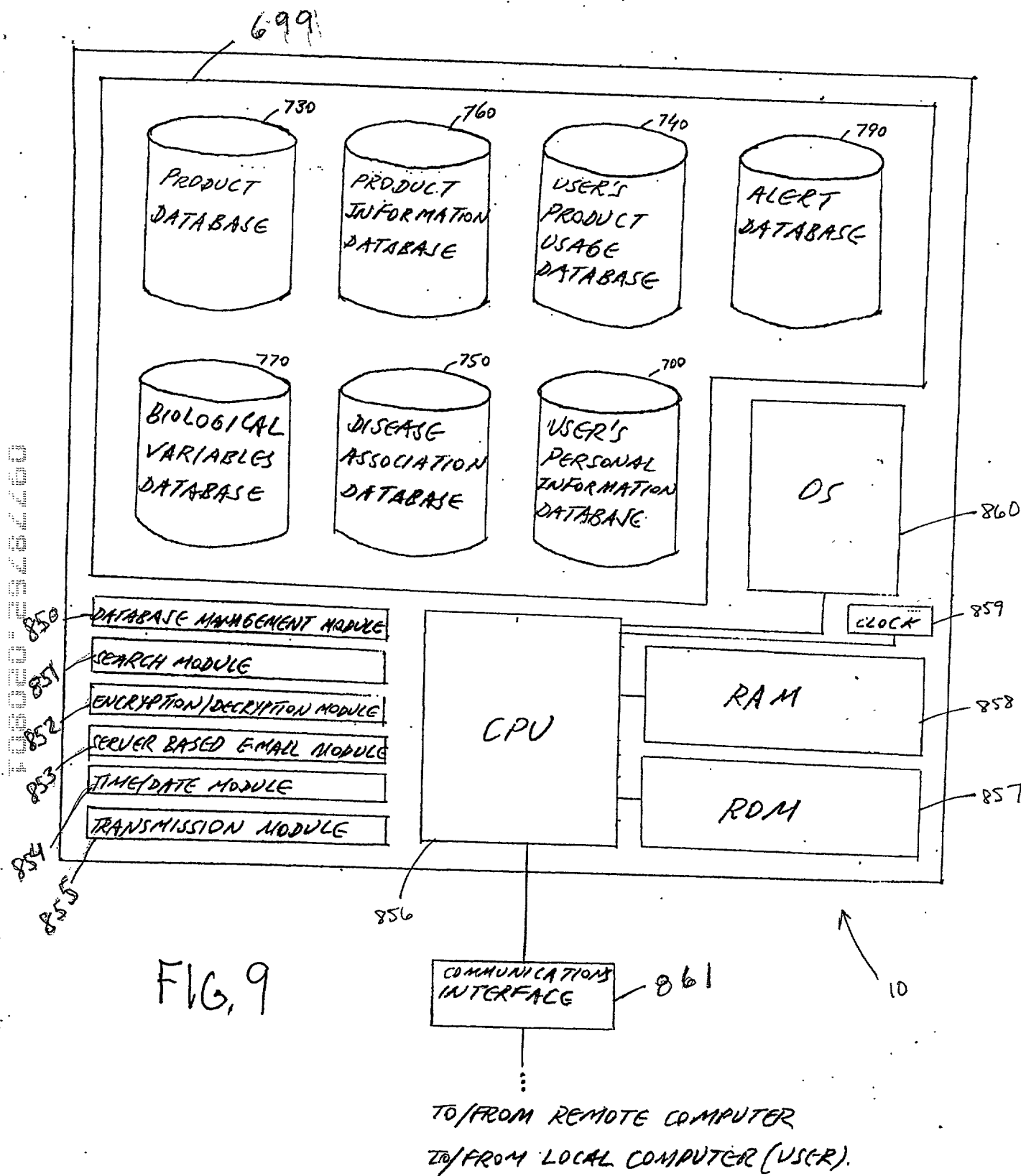


FIG. 9

START

900 PROMPT USERNAME IN
PORTABLE UNIT

910 PROMPT USER PASSWORD

920
Stored
Password

930
P
P = SP?
Yes
No

940
SOUND
Alarm

950
Display
"Invalid
password"

952
SELECT FUNCTION

954
Enter
Biometric
Data

AE

956
Acquire
Key

AF

953
Enter
Product
Identifier

A

960
Remove
Product
Identifier

AG

962
Enter
Biological
Variable

965
Acquire
Biological
Variable

970
last
Biological
Variable?

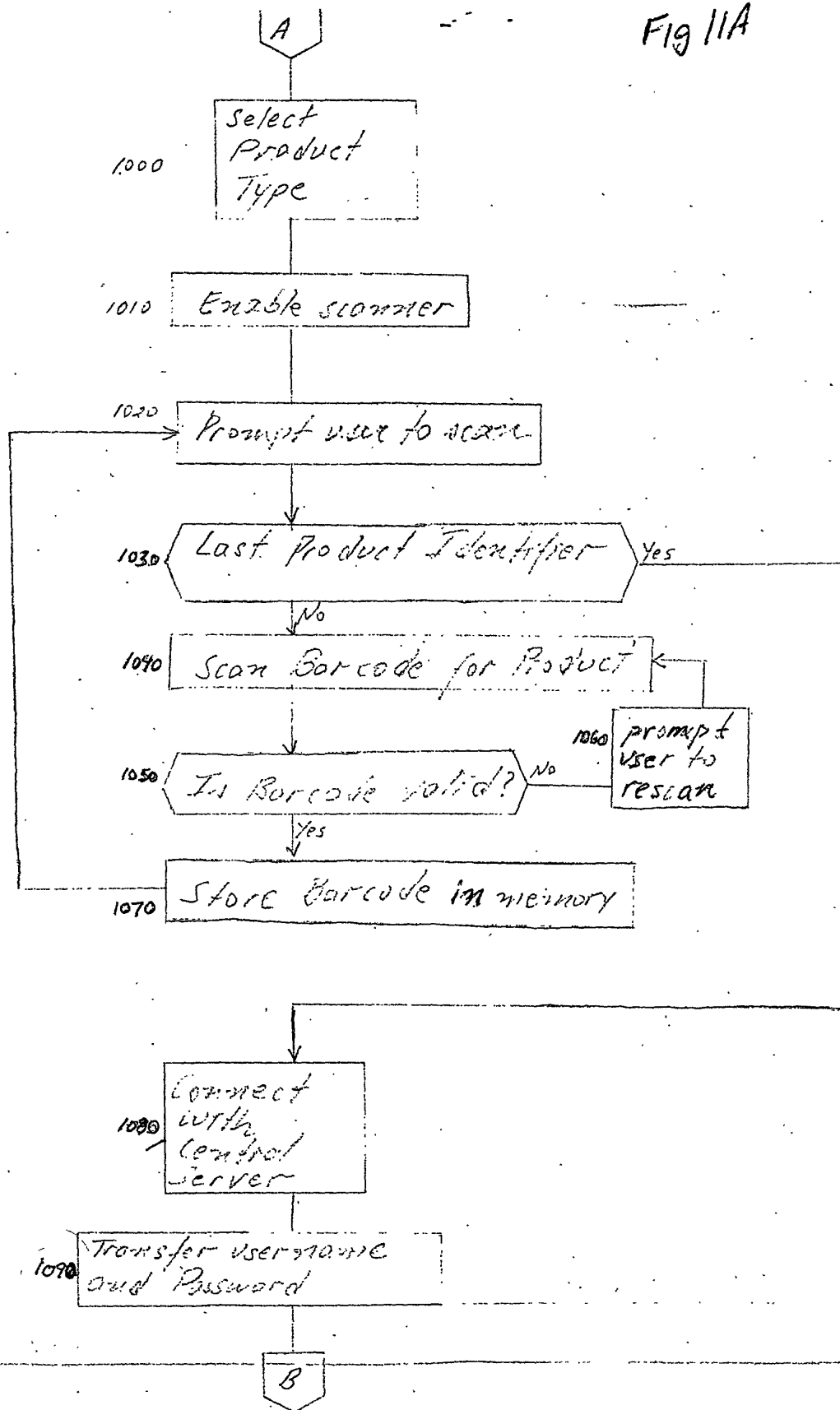
965
Connect
with
Central
Server

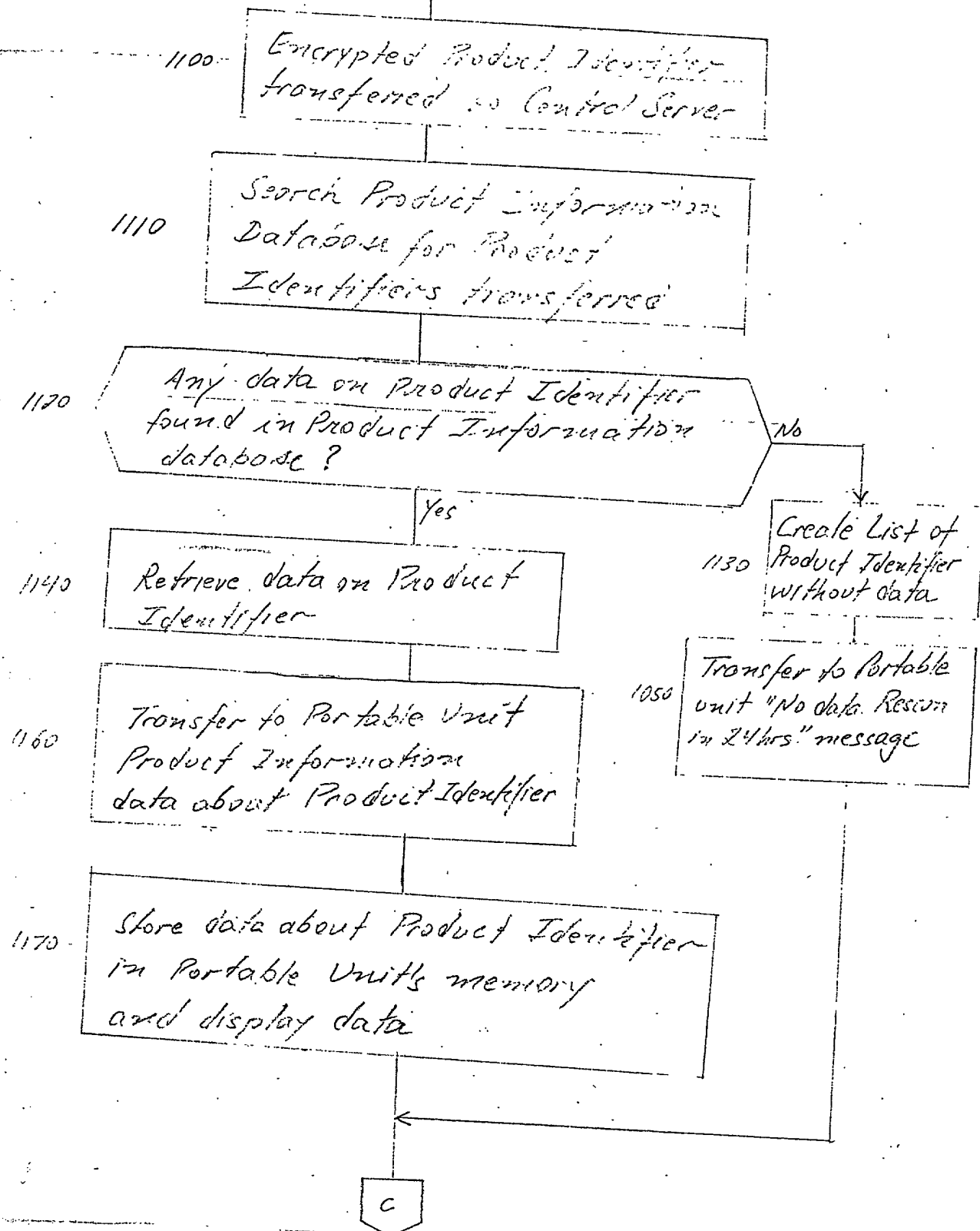
R

975
Select
Biological
Variable

980
Enter
Biological
Variable

FIG. 10

[illegible]



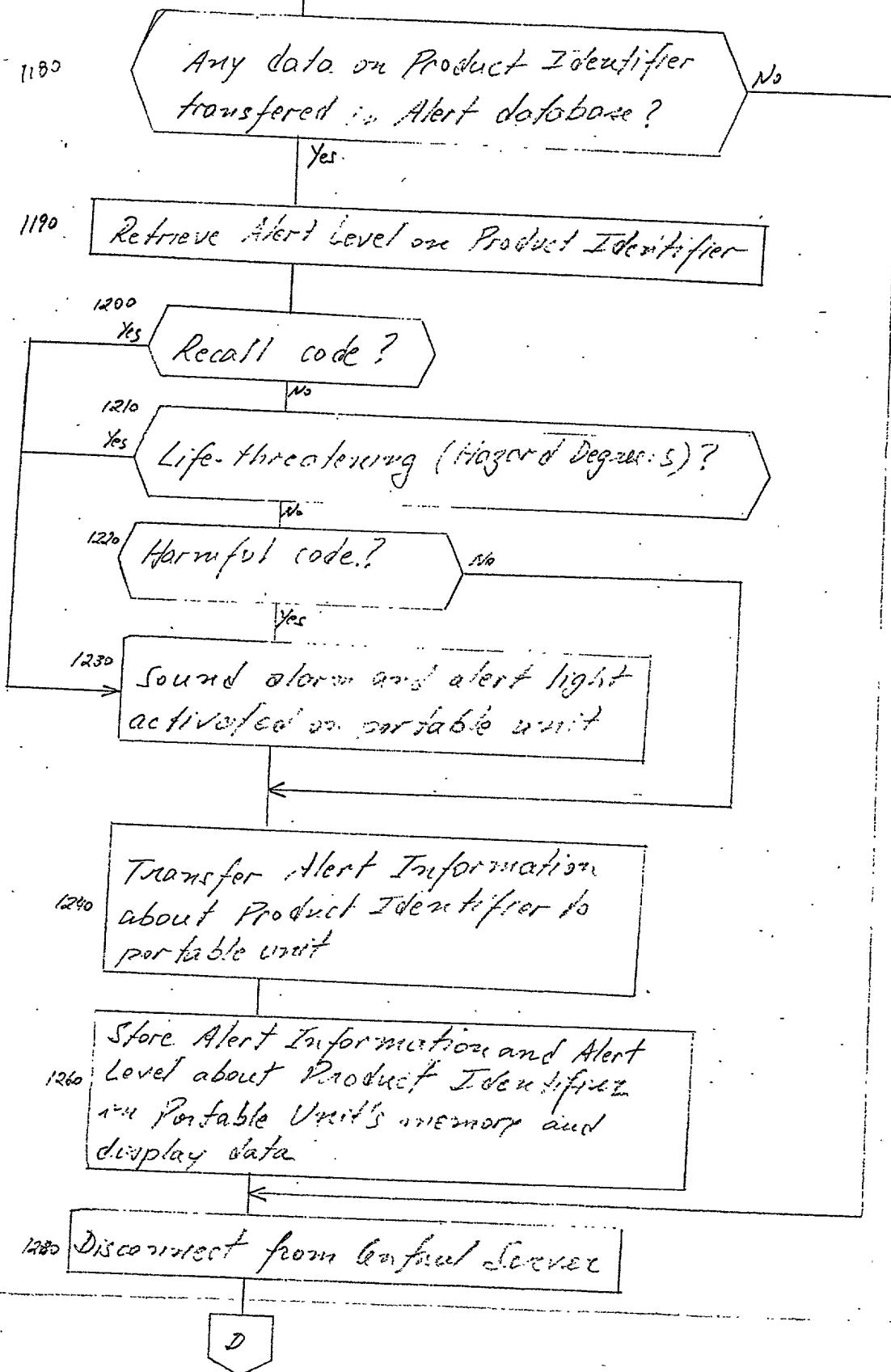


Fig 11D

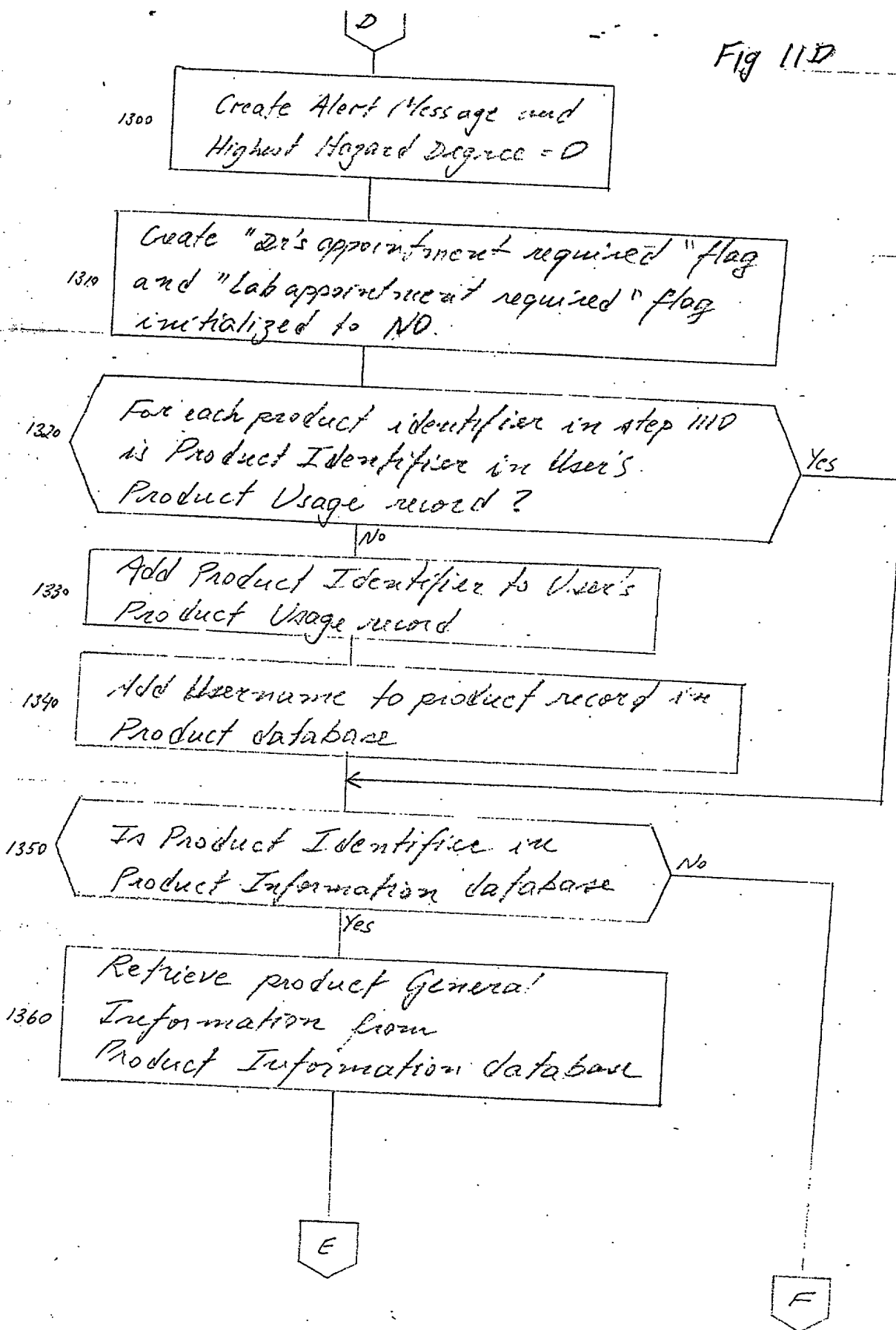
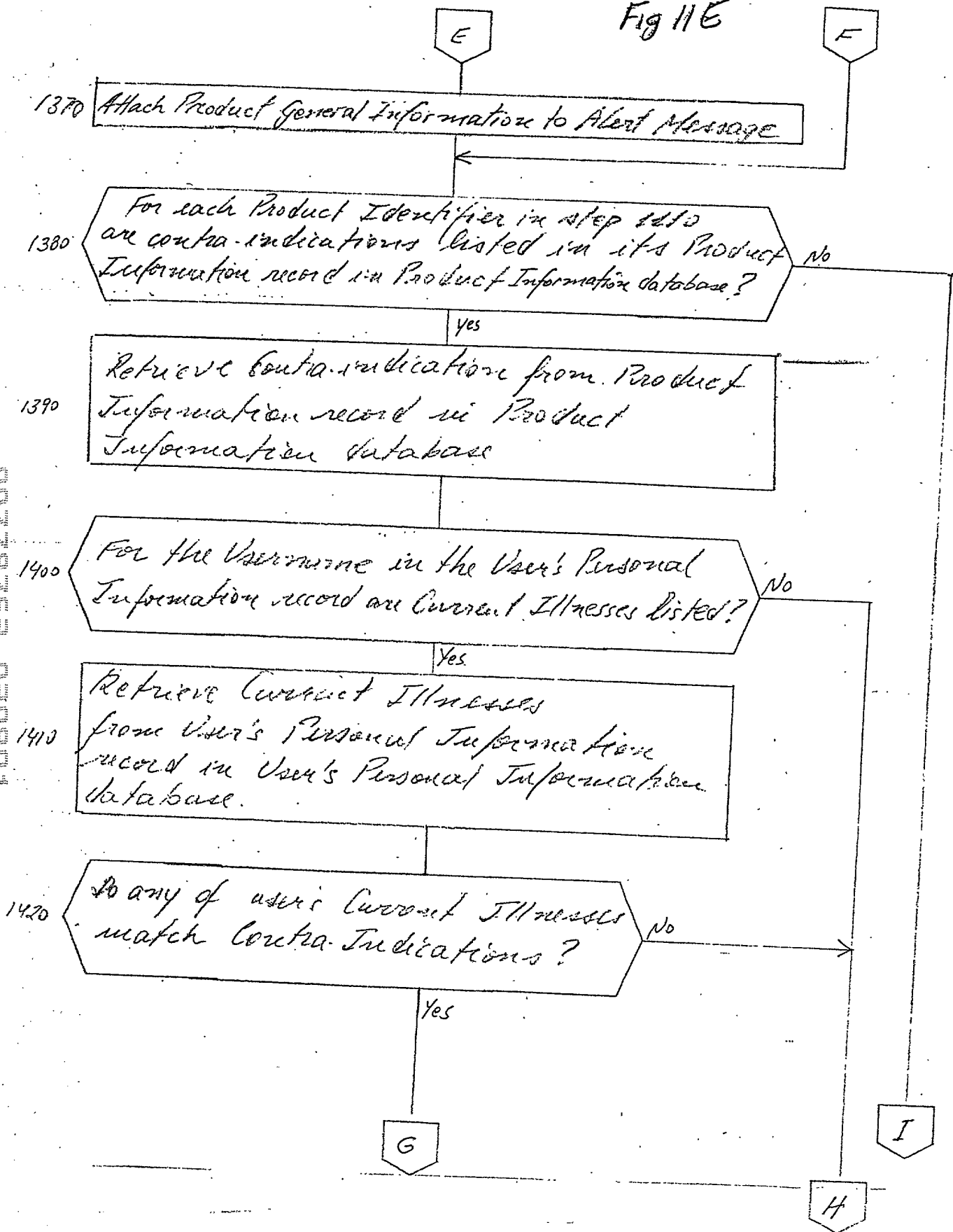


Fig 11E



6

Fig 11F

I

1430

Attach to Alert Message that
product is contra-indicated
for user's Current Illnesses

H

1440

If "Dr's Appointment Required" of
Contra-indication in Product Information
database is Yes then "Dr's Appointment
Required" equals Yes

1450

If "Lab Appointment Required" of
Contra-indication in Product Information
database is Yes then "Lab Appointment
Required" equals Yes

1460

If Hazard Degree of Contra-Indication in
Product Information database is greater than
Highest Hazard Degree then Highest Hazard
degree equals Hazard Degree of Contra-indication

J

K

0076963-02004

J

Fig 11G

K

1480

For the Username in the Biological Variables database are biological variables Parameter Sorted?

No

Yes

1490

Retrieve Biological Variables for Username

1500

Based on User's Biological Variables using Disease Association database determine Identified Diseases

1510

Do any of Identified Diseases match Contra-Indications in Product Information database?

No

Yes

1520

Attach to Alert Message that product is contra-indicated for Identified Diseases indicated by user's Biological Variables

1530

Repeat steps 1440 and 1450

1540

If Hazard Degree of Contra-indication in Product Information database is greater than Highest Hazard Degree then Highest Hazard Degree equals Highest Hazard Degree of Contra-indication.

L

2

M

Fig 11F

N

1600

Retrieve Product Interaction Warning Message from Product Interaction field in Product Information database based on Product Identifier from step 1560 and Product Identifier from match at step 1590

1610

Attach to Alert Message Interaction Warning Message

1620

If "Dr's Appointment Required" of Interaction Warning Message equals Yes then "Dr's Appointment Required" equals Yes

1630

If "Lab Appointment Required" of Interaction Warning Message equals Yes then "Lab Appointment Required" equals Yes

1640

If Hazard Degree of Interaction Warning Message is greater than Highest Hazard Degree then Highest Hazard Degree equals Hazard Degree of Interaction Warning Message

O

00778762-00001

0

Fig 11 J

1660

Repeat from steps 1560 to 1640
using Alert database instead
of Product Information database

1670

For each Product Identifier in
step 1660 is there a record in
Alert database?

Yes

1680

Based on Product Identifiers at step 1670
using Hazard Degree in Alert Information
field in Alert database determine
highest value

1690

If highest value is greater than Highest
Hazard Degree then Highest Hazard Degree
equals highest value

1700

Retrieve product Alert Information for
Product Identifier from Alert Information
field in Alert database

P

Fig 11K

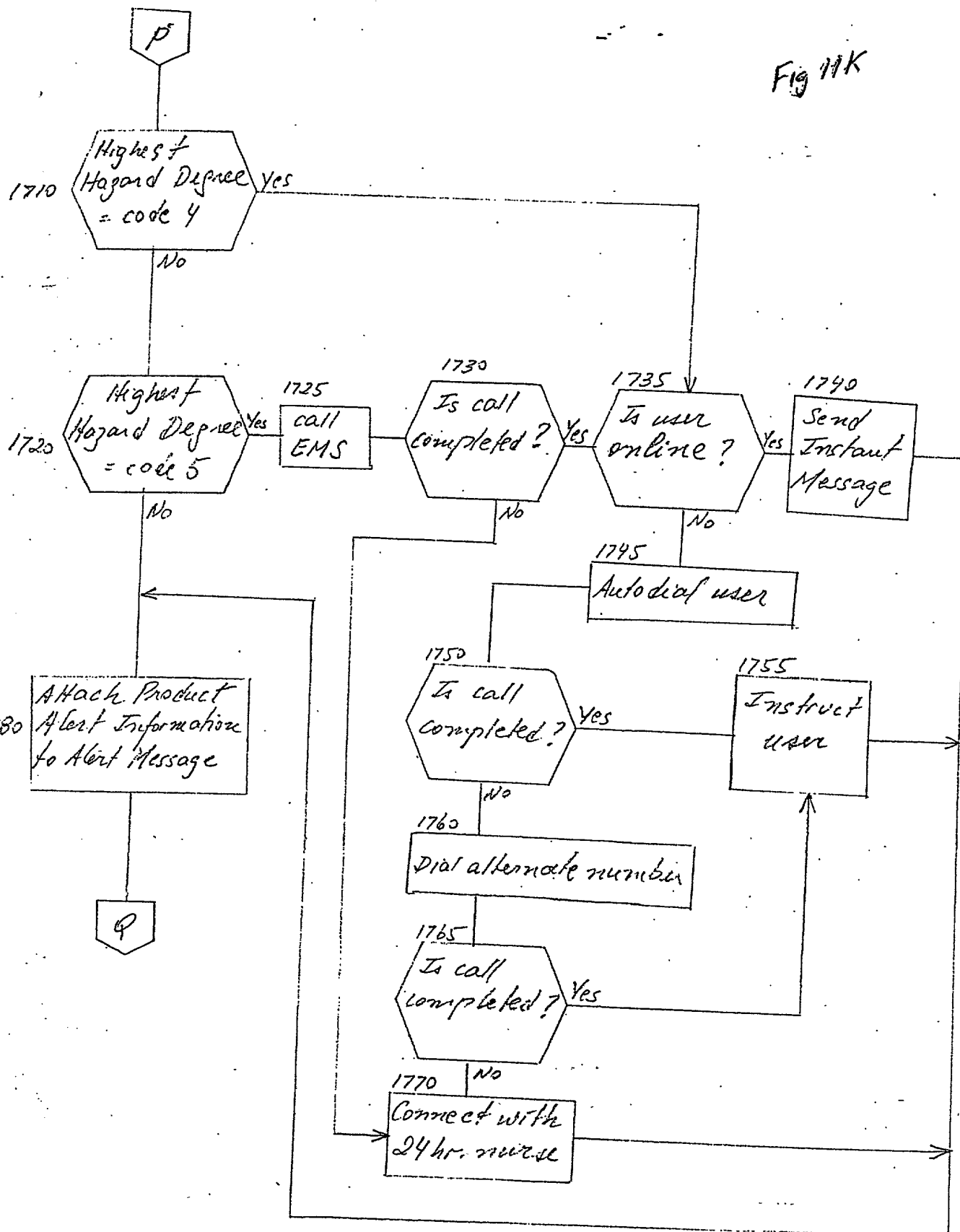
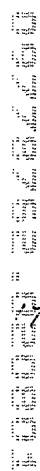
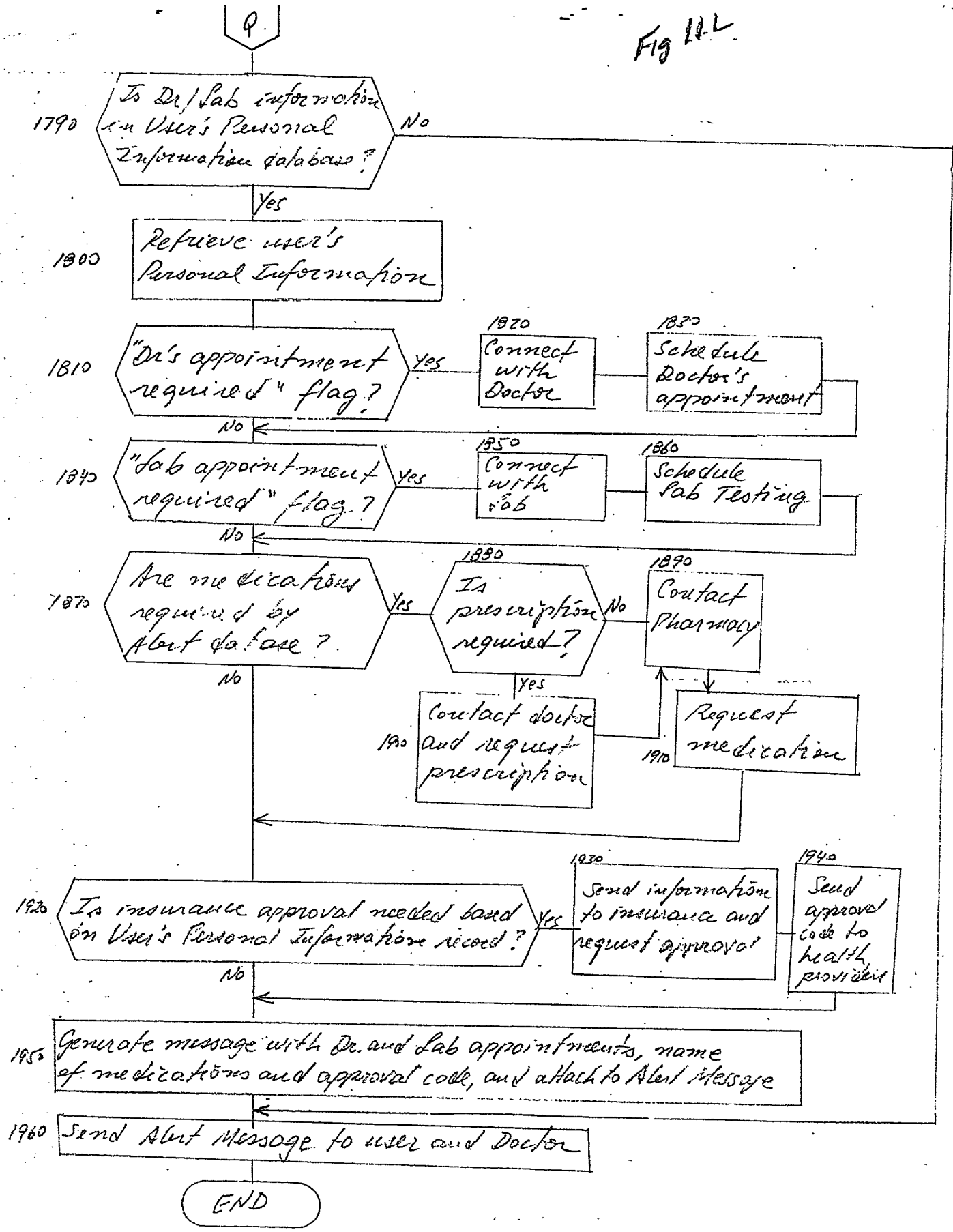


Fig 11.4



00770252-020004

Fig 12A

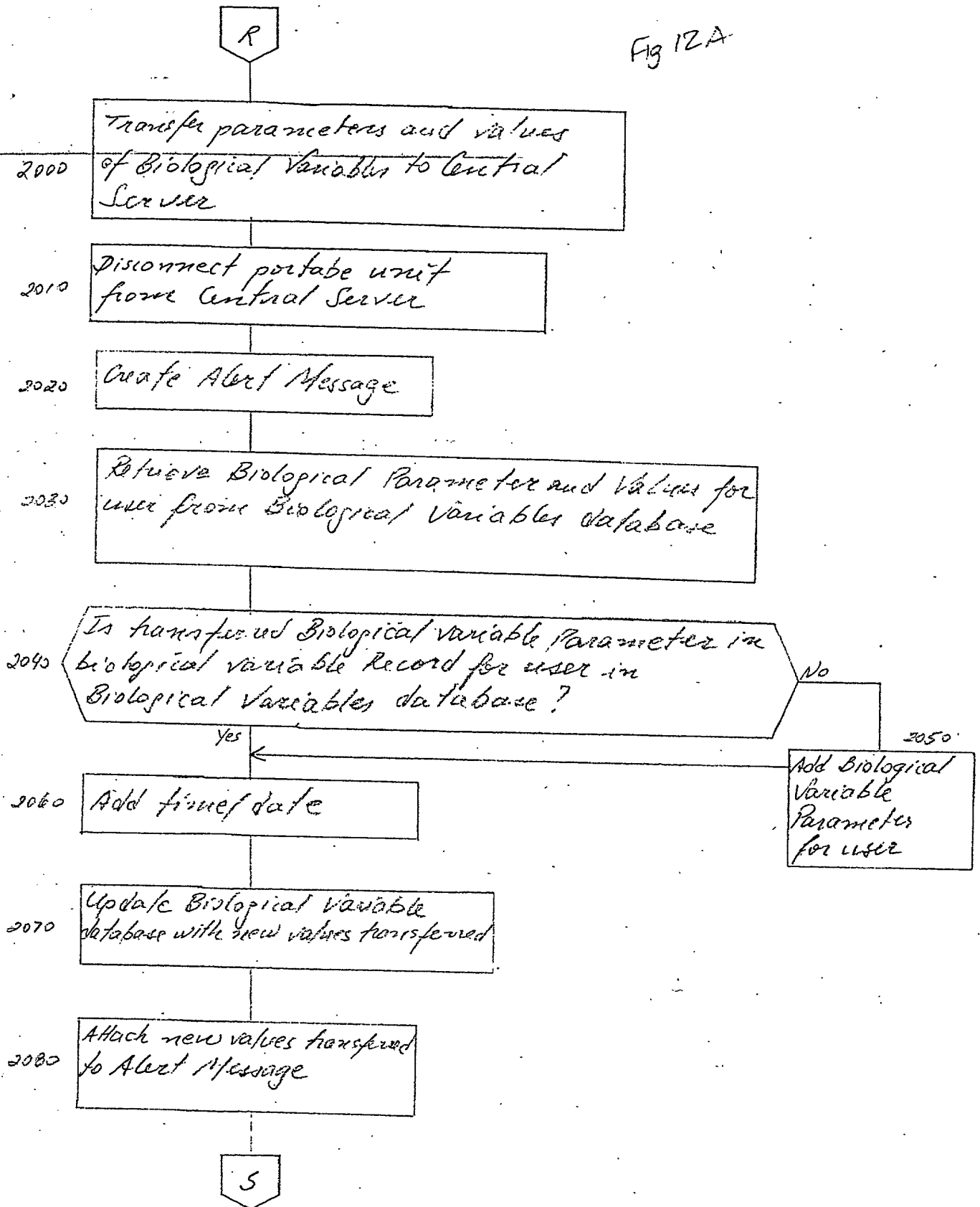


Fig 12B

2090

Retrieve from Personal Information database normal range of Biological variables for user

2100

Are transferred Biological variables within normal range?

Yes

2110

Attach Biological Variable values are normal to Alert Message

No

2120

Retrieve timely monitoring period from User's Personal Information database

2130

Retrieve from Biological Variable database the date the Biological Variable was last transferred

2140

Is today's date minus date of last transferred biological variable less than timely monitoring period?

Yes

2150

Attach Abnormal Value but timely monitored to Alert Message

No

2160

Attach User instruction on timely monitoring to Alert Message

U

V

0077963-00004
100000-000000

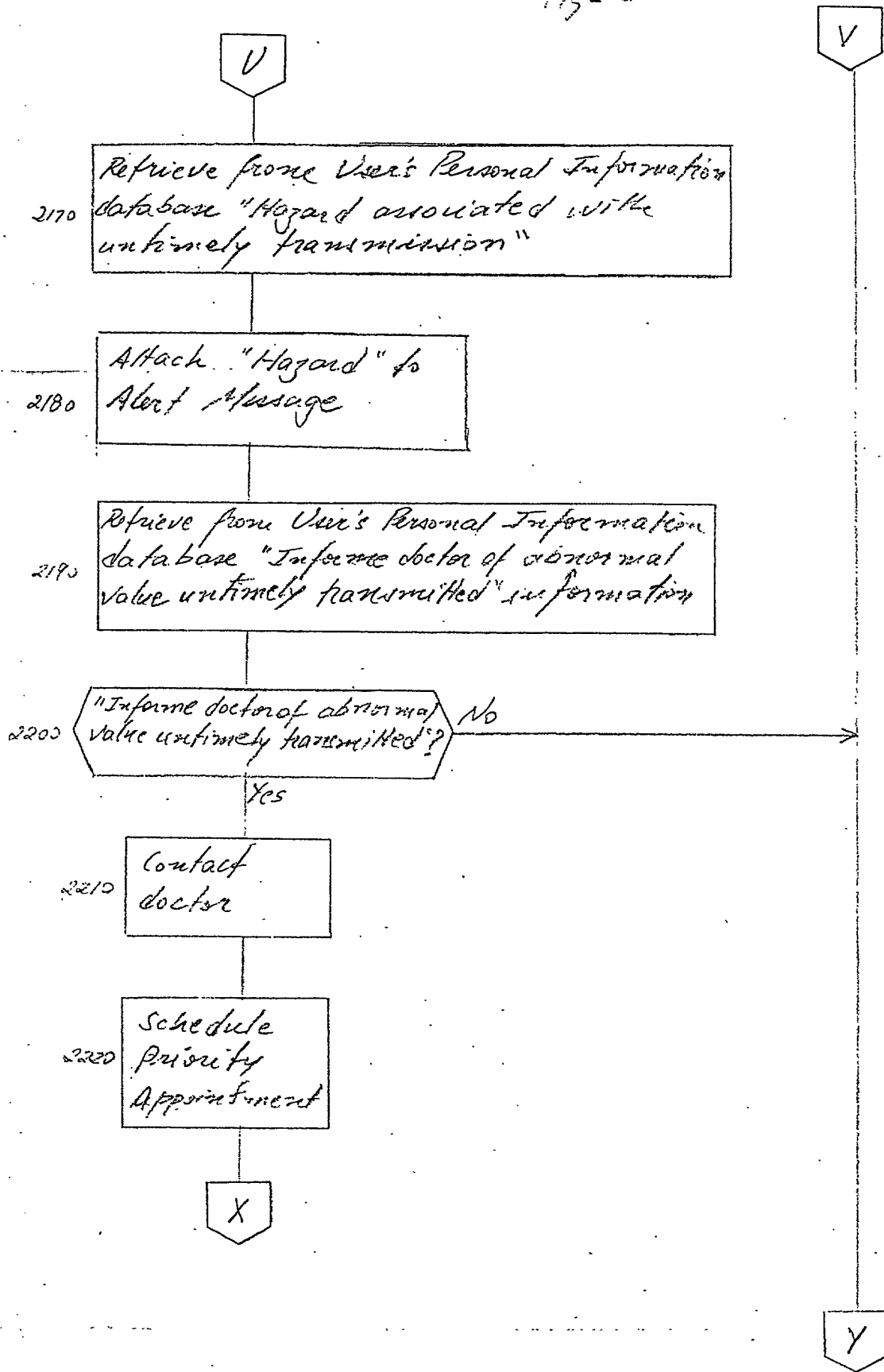


Fig 12D

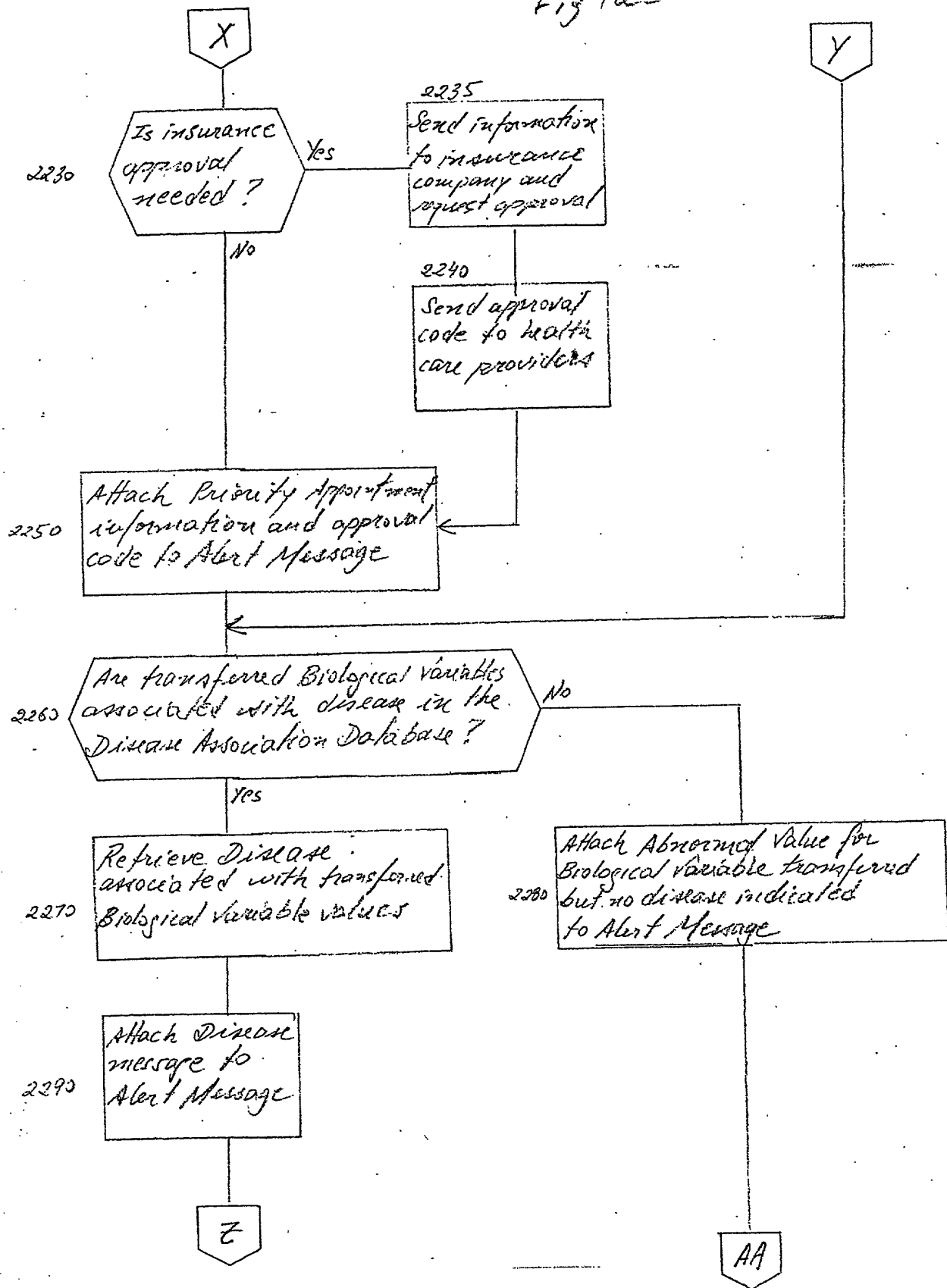


Fig 12E

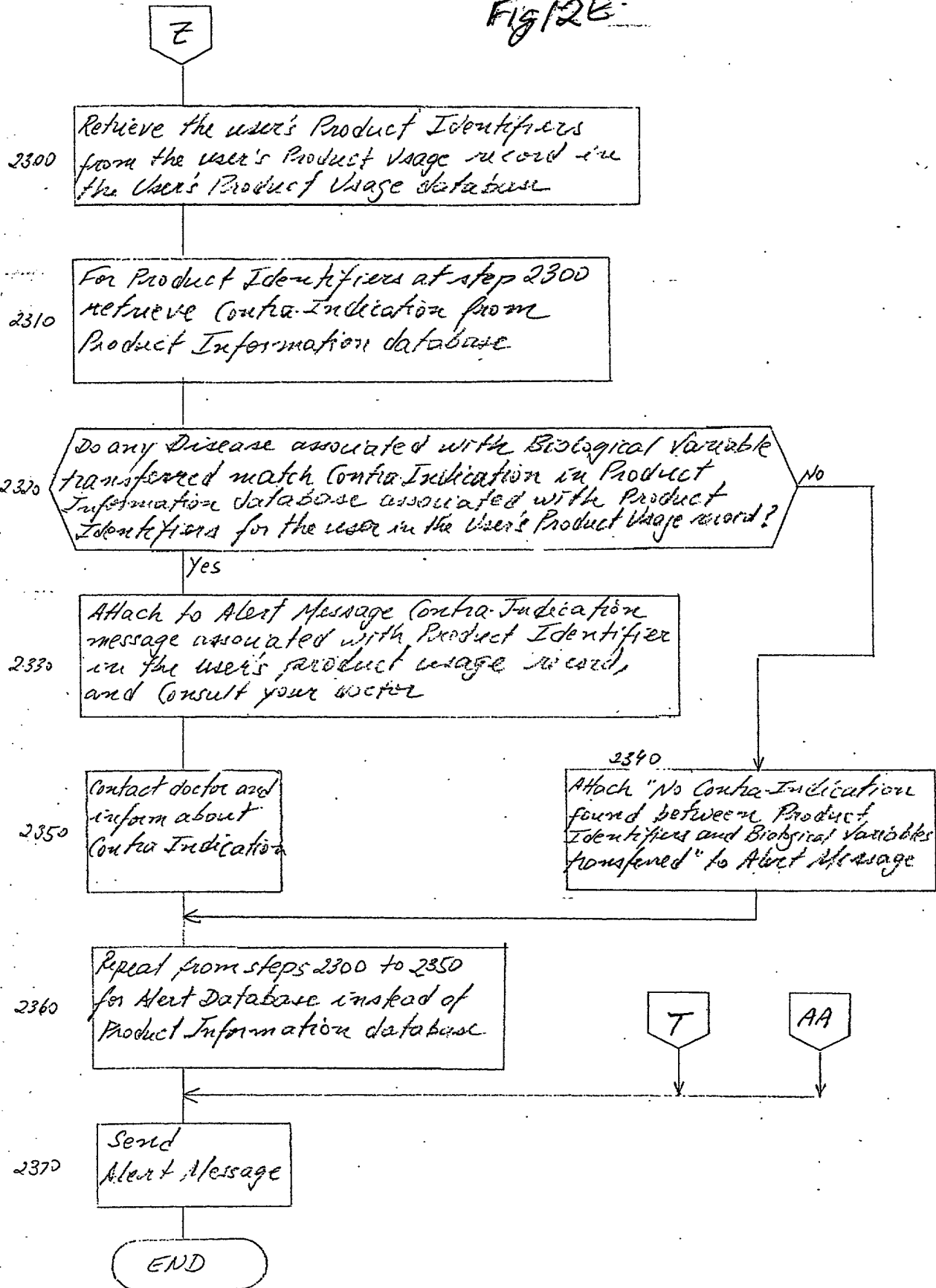
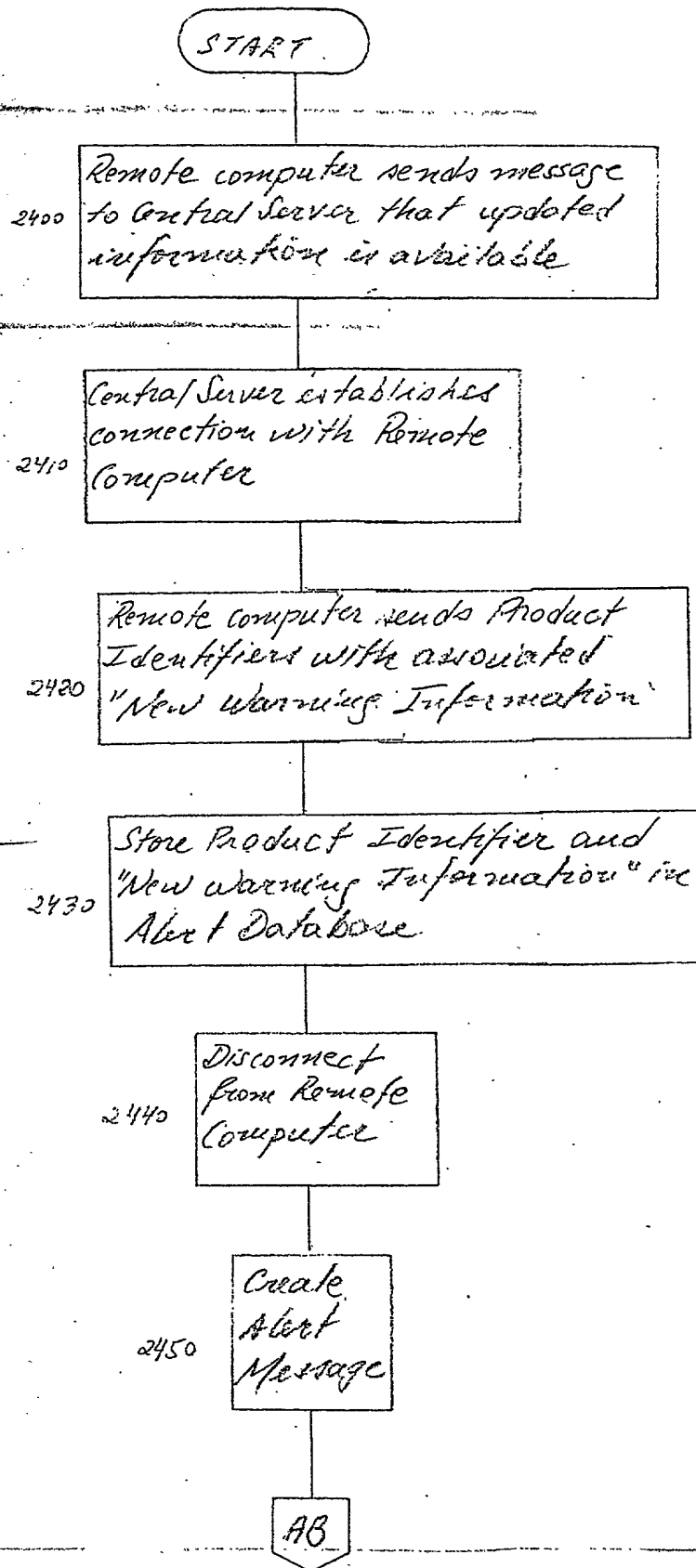
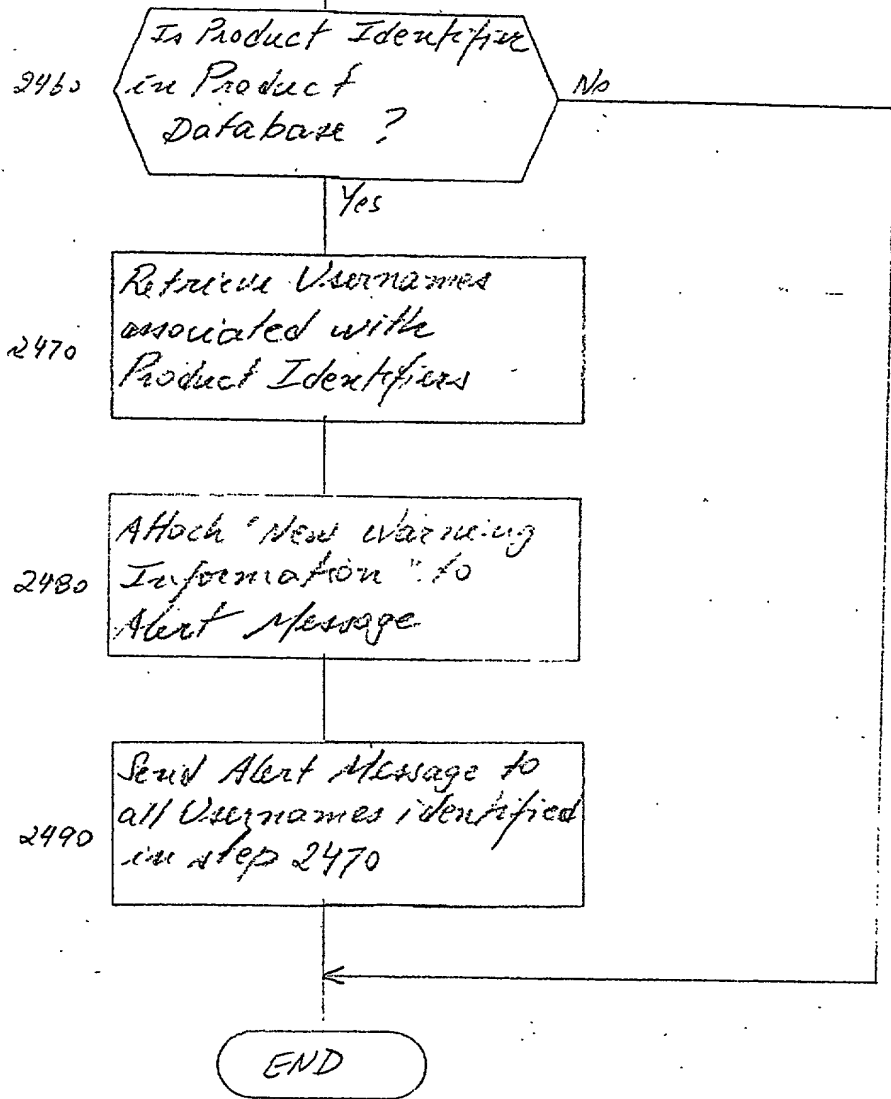


Fig 13 A



AB



00770762-000001

Fig 14A

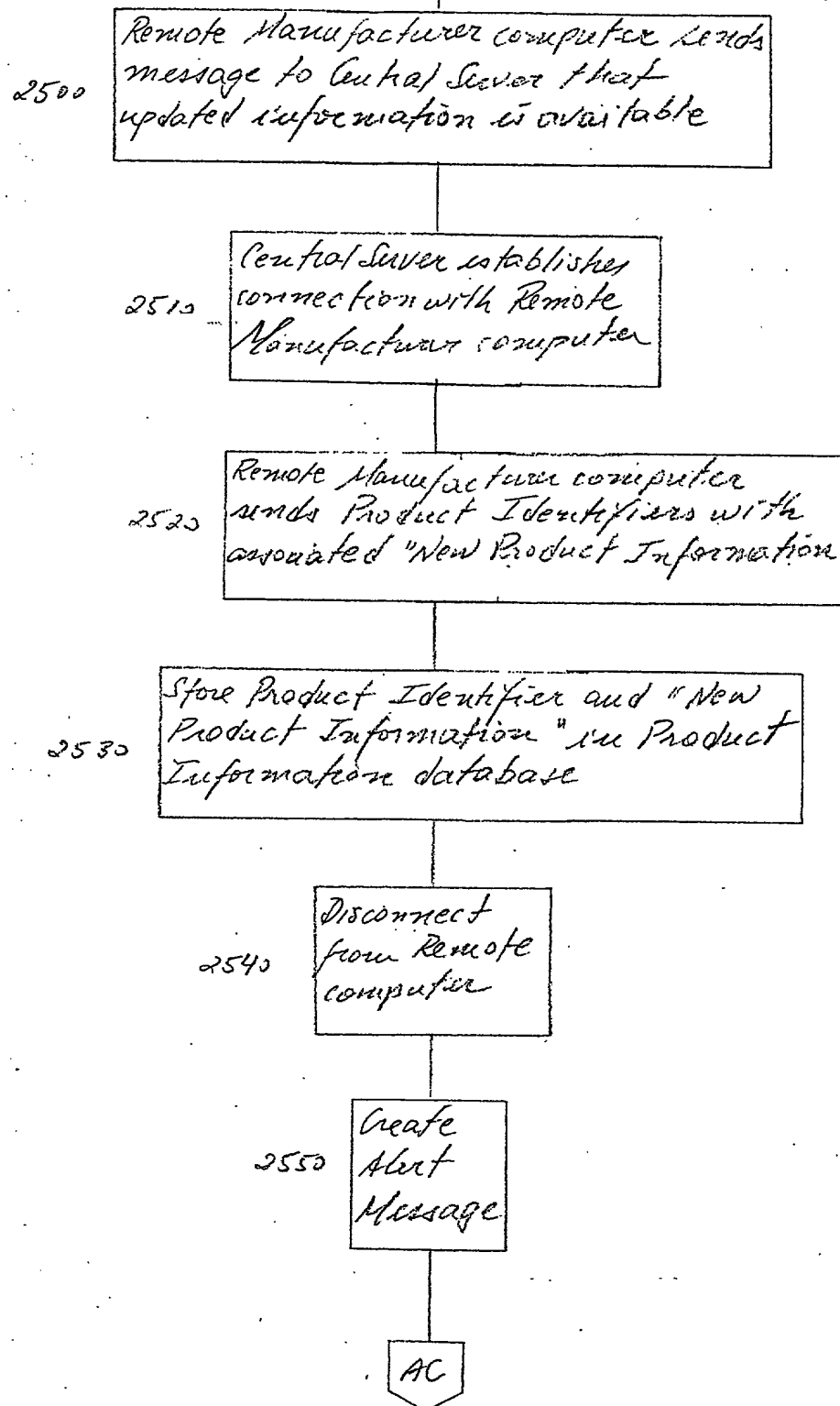


FIG 14B

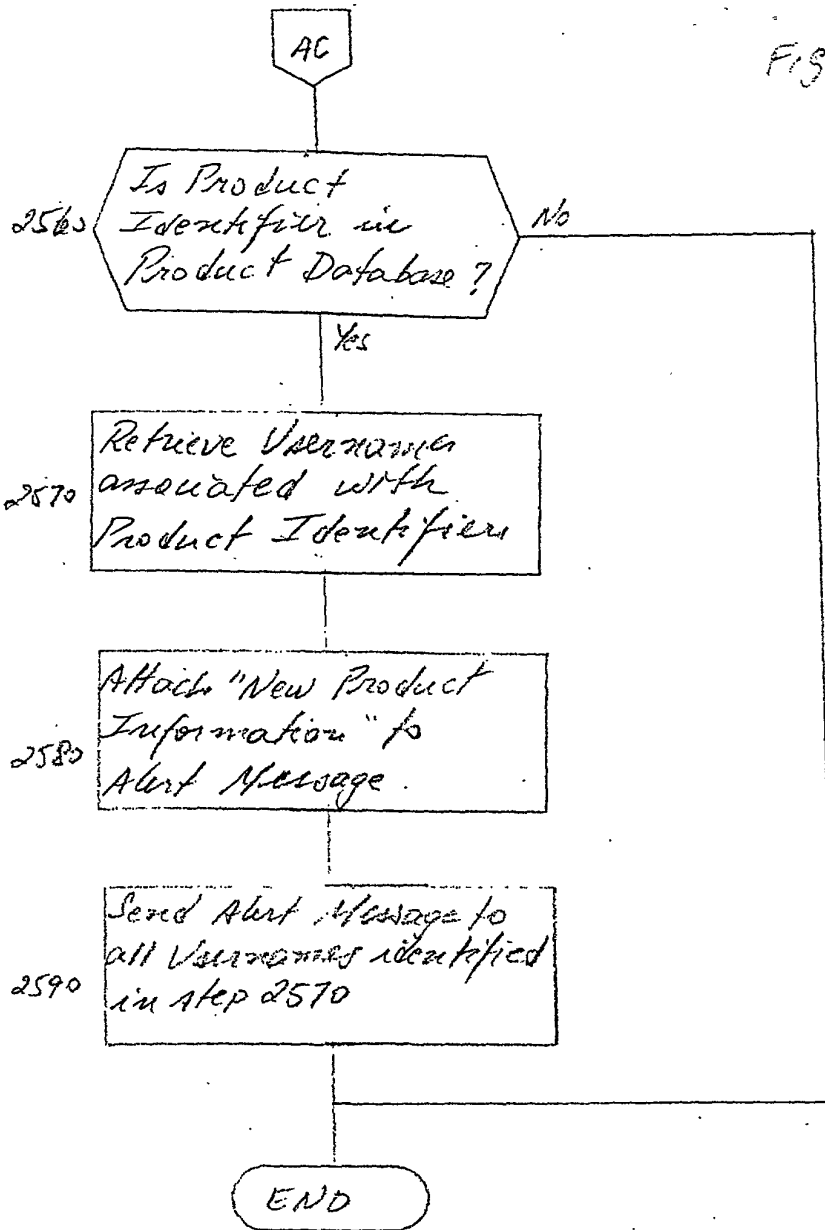


Fig 15 A

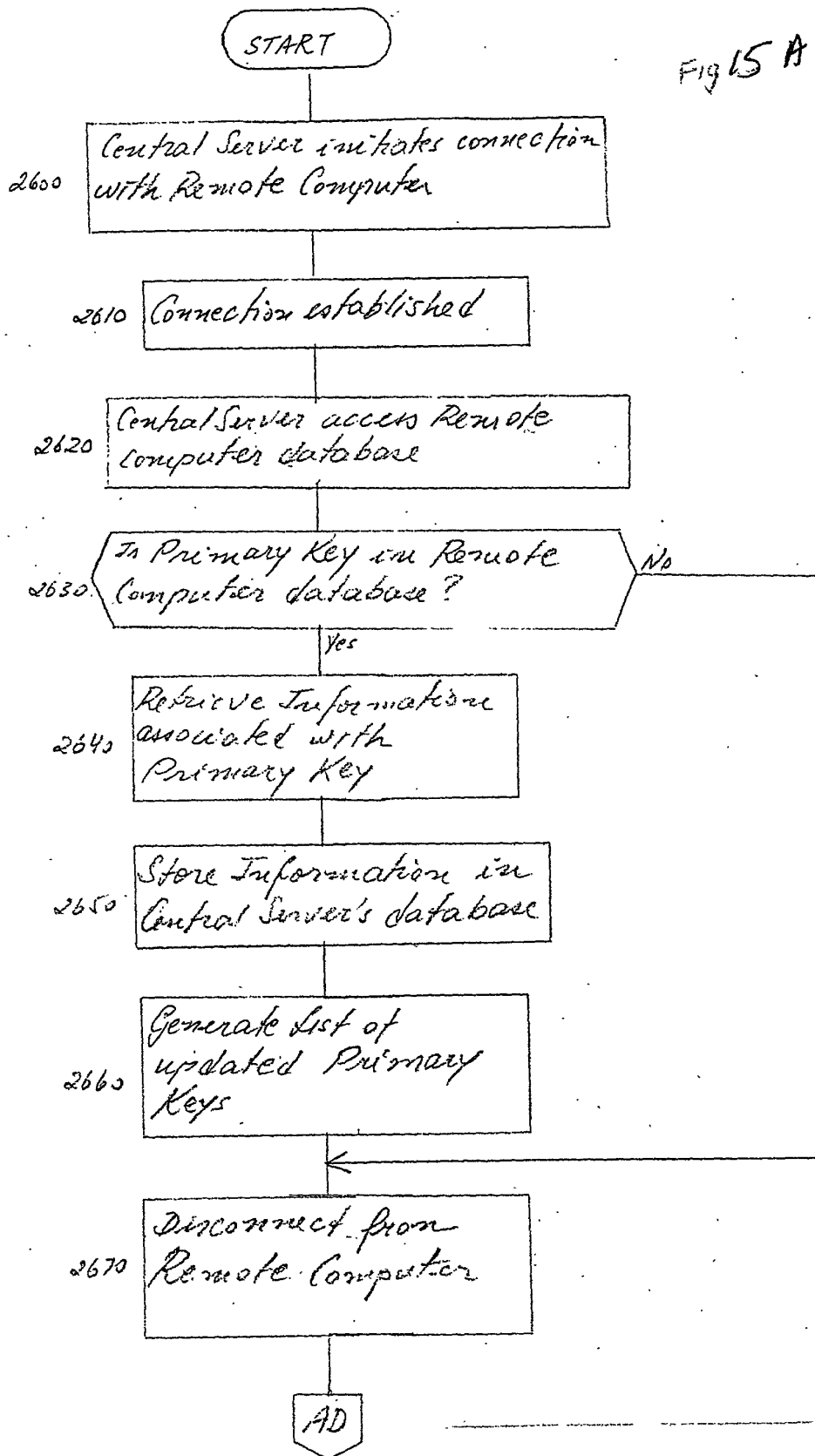


Fig 15B

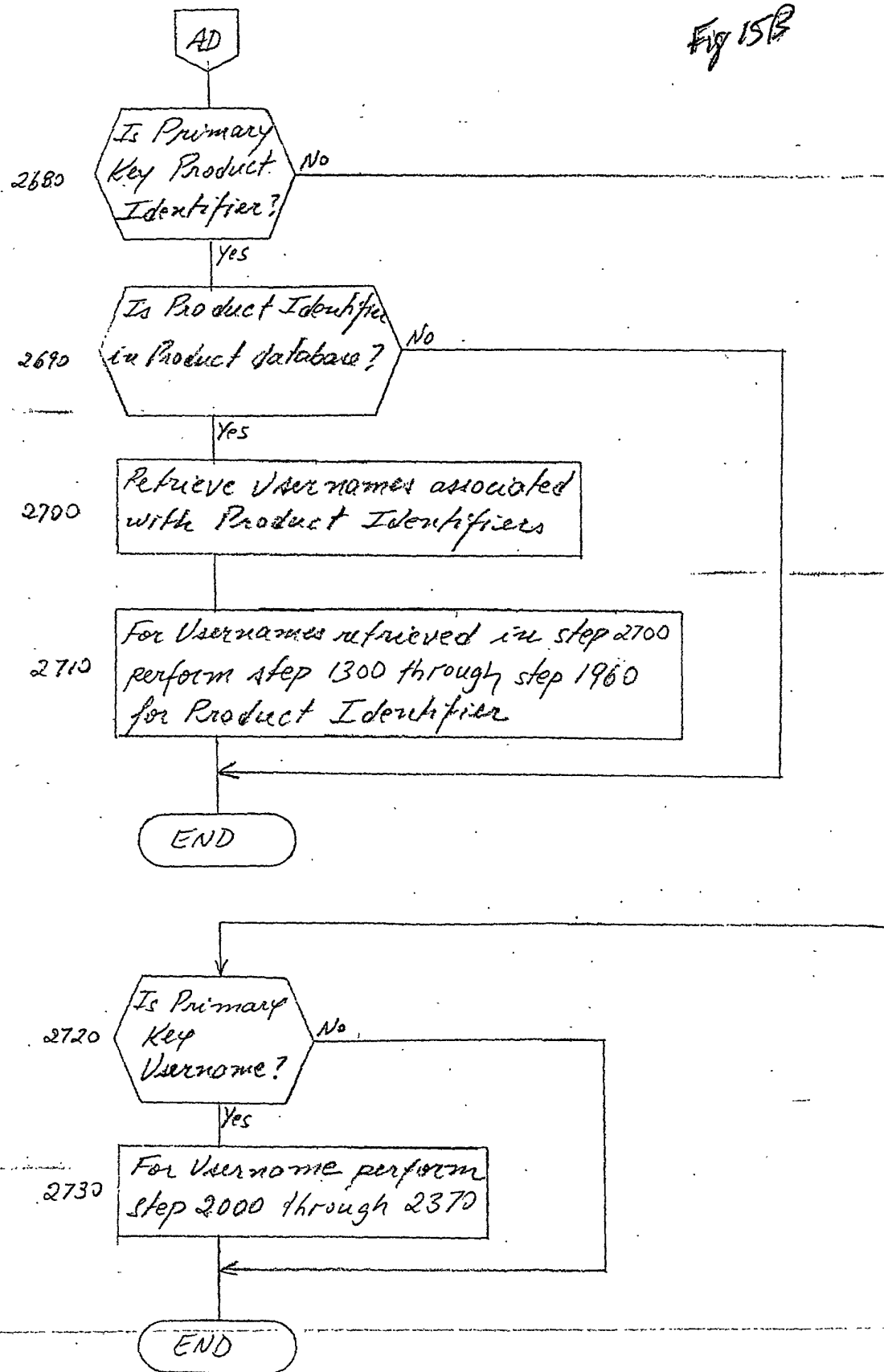
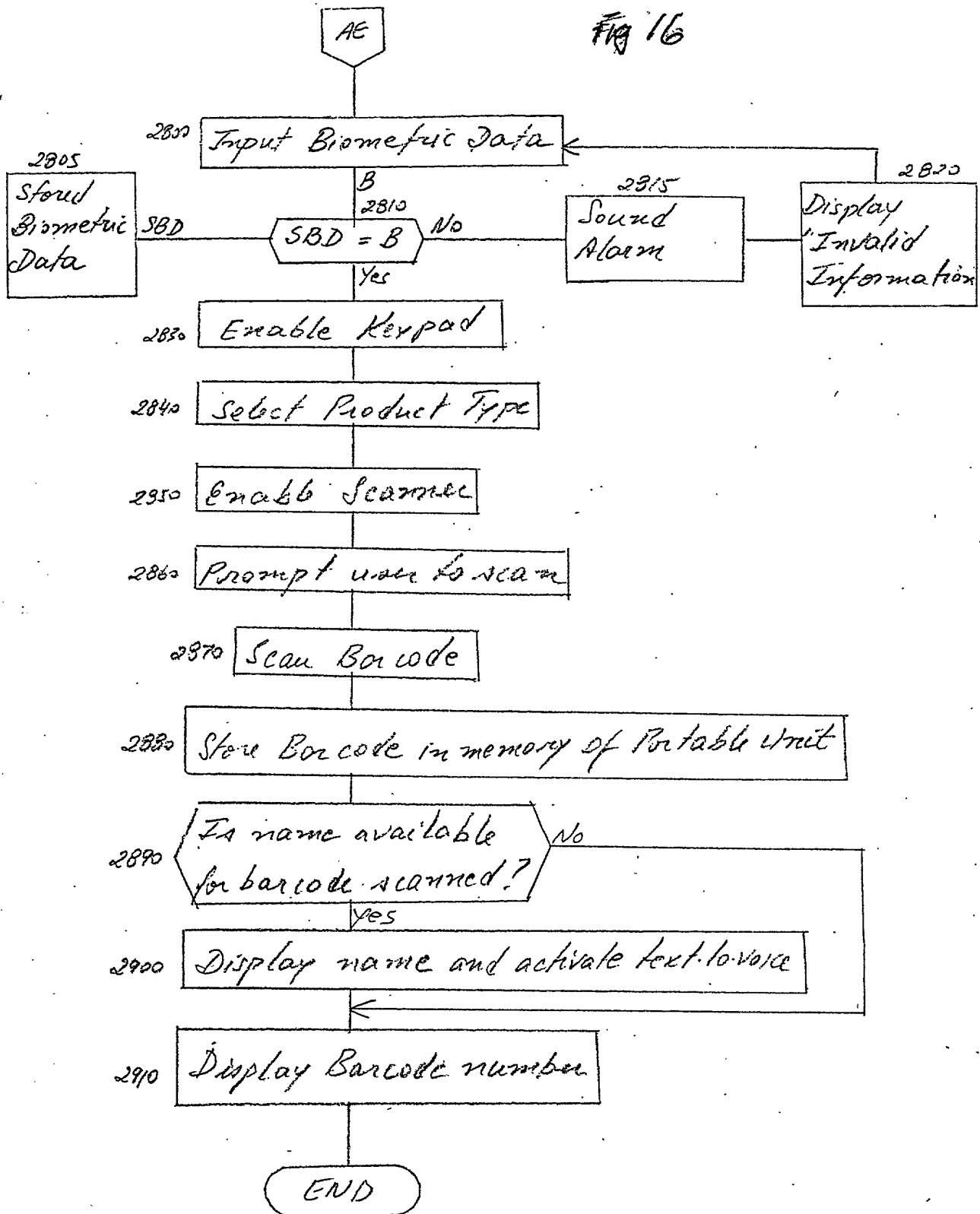
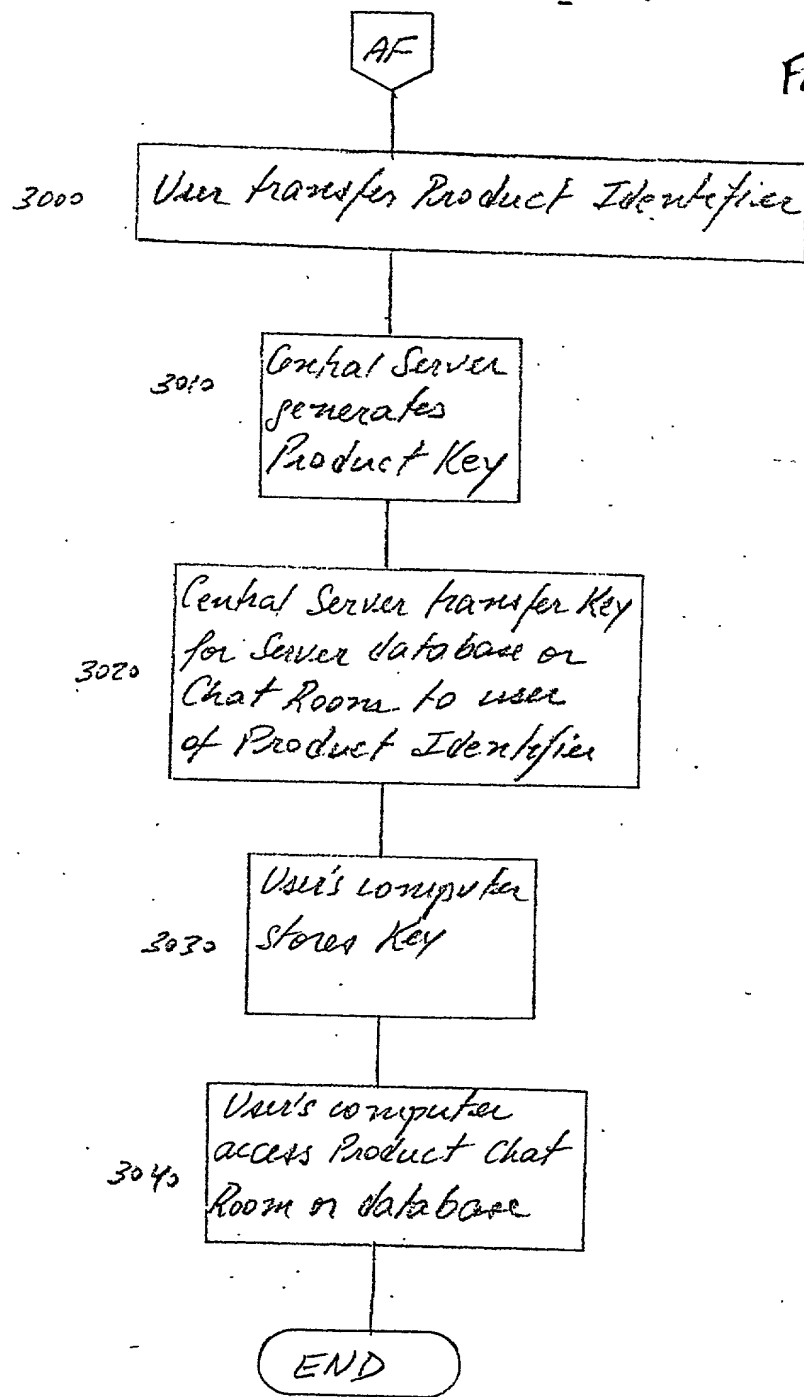


Fig 16



100000-5528260

Fig 17A



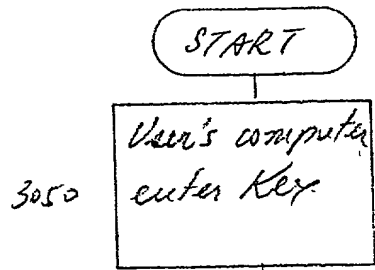


FIG 17B

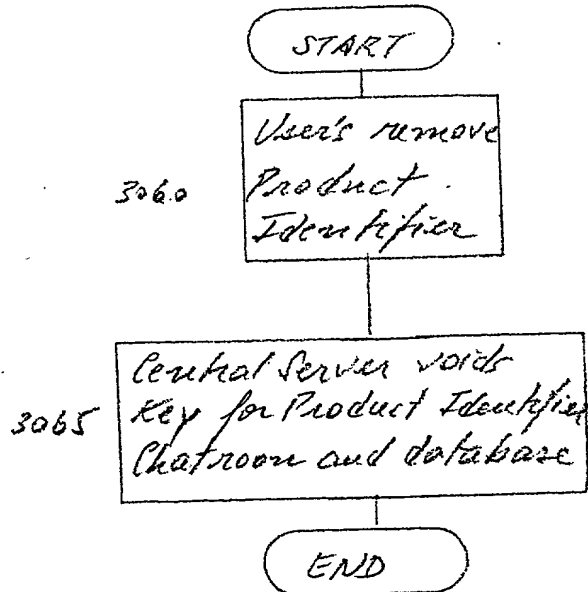
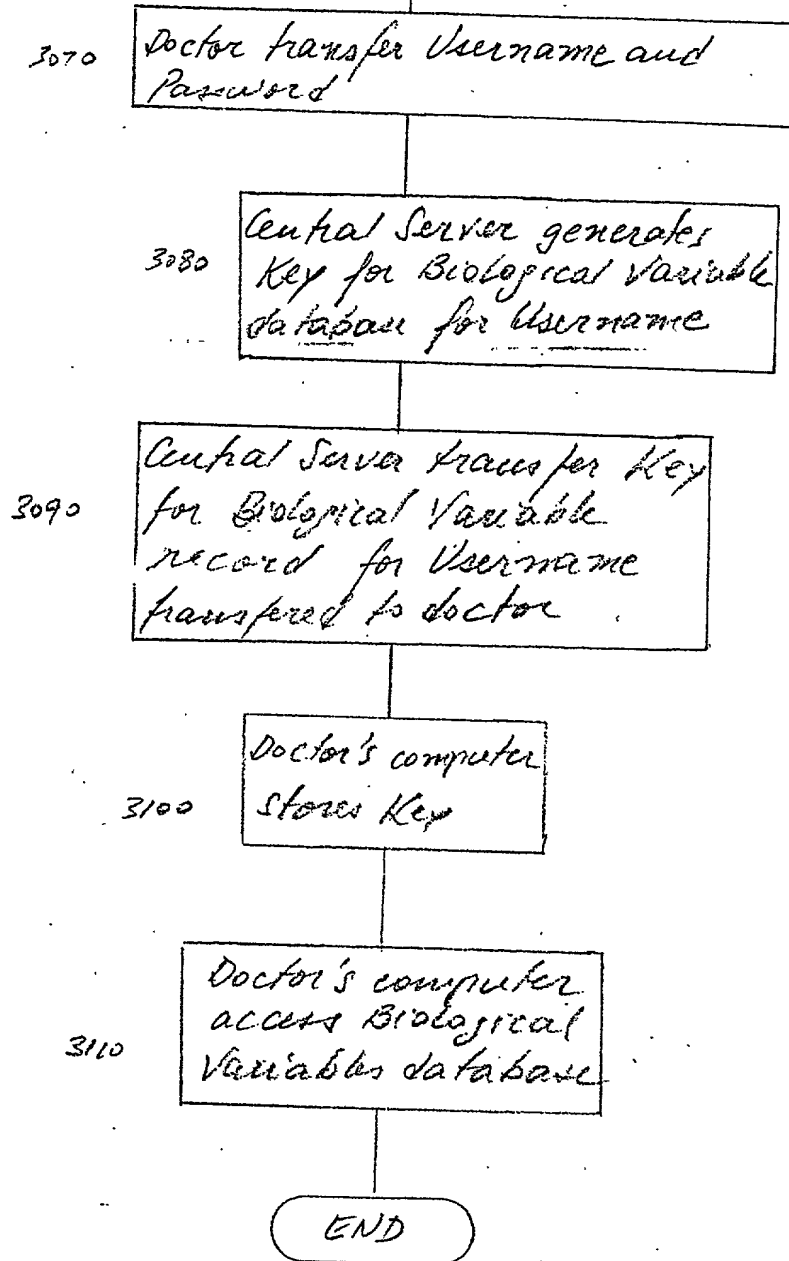


Fig. 17C

09778762:020004

Fig 18A



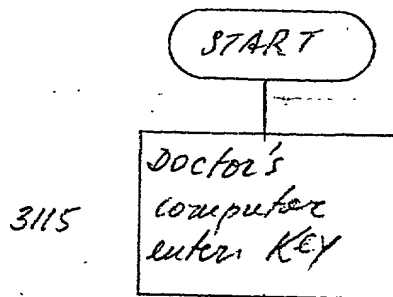


Fig. 18B

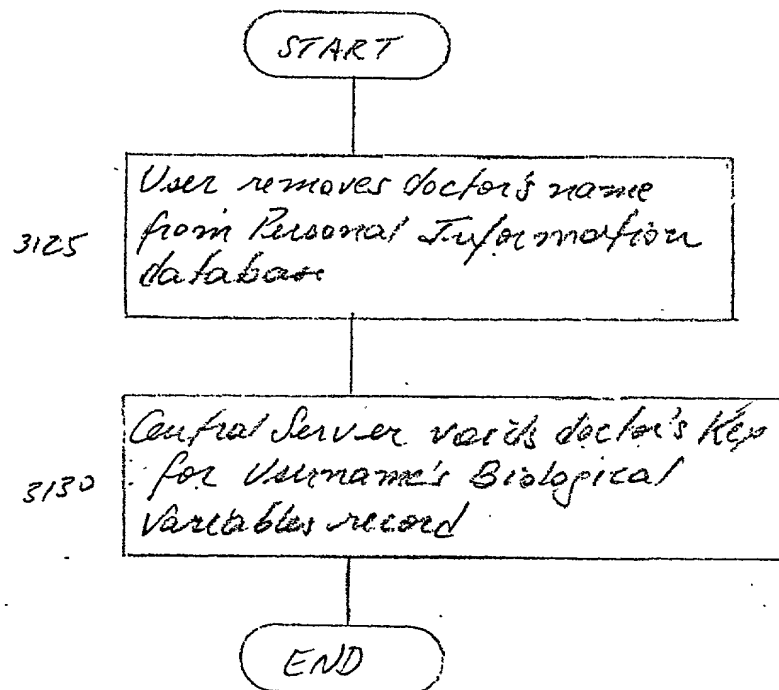


Fig. 18C

Fig 19A

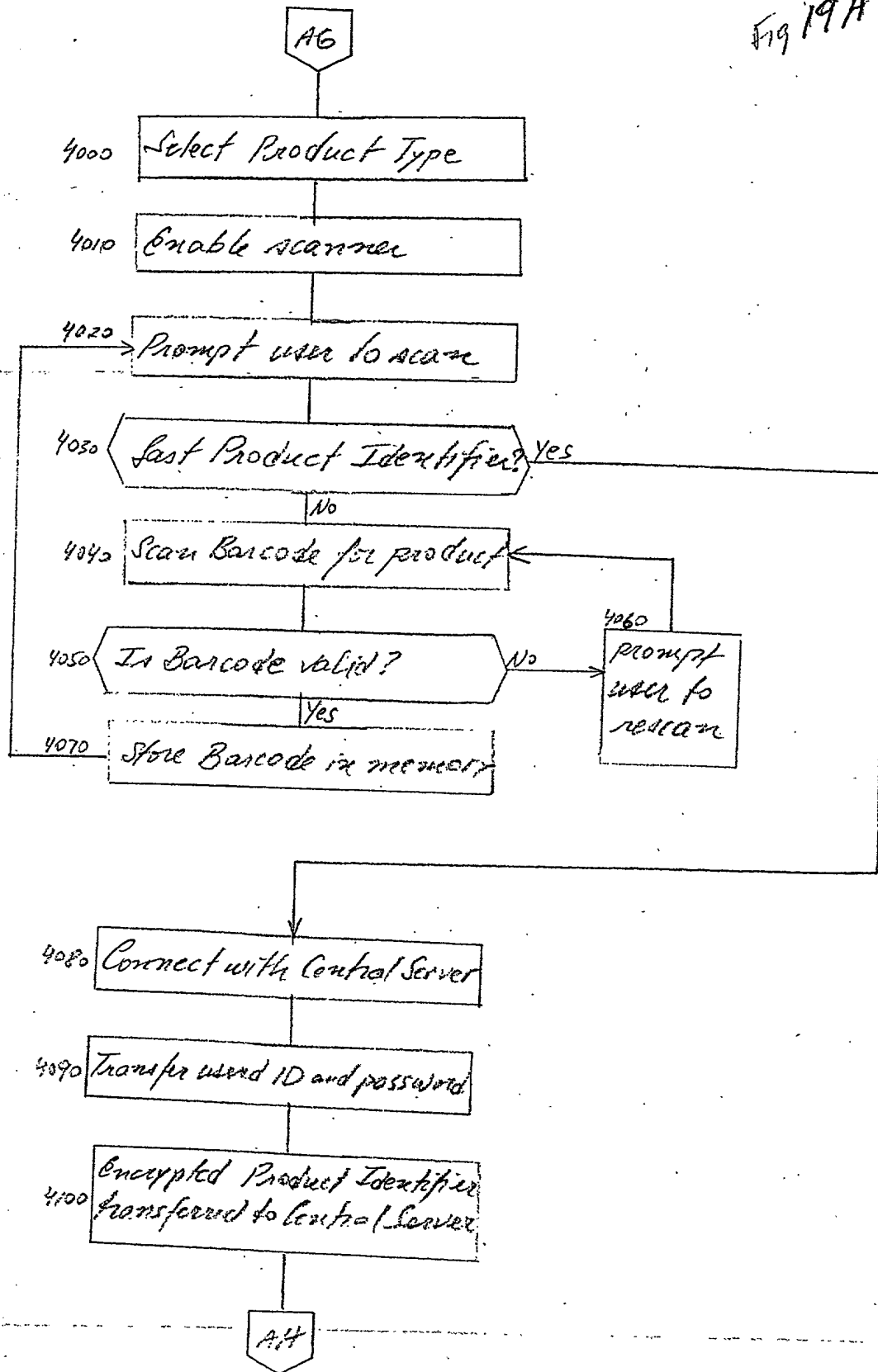
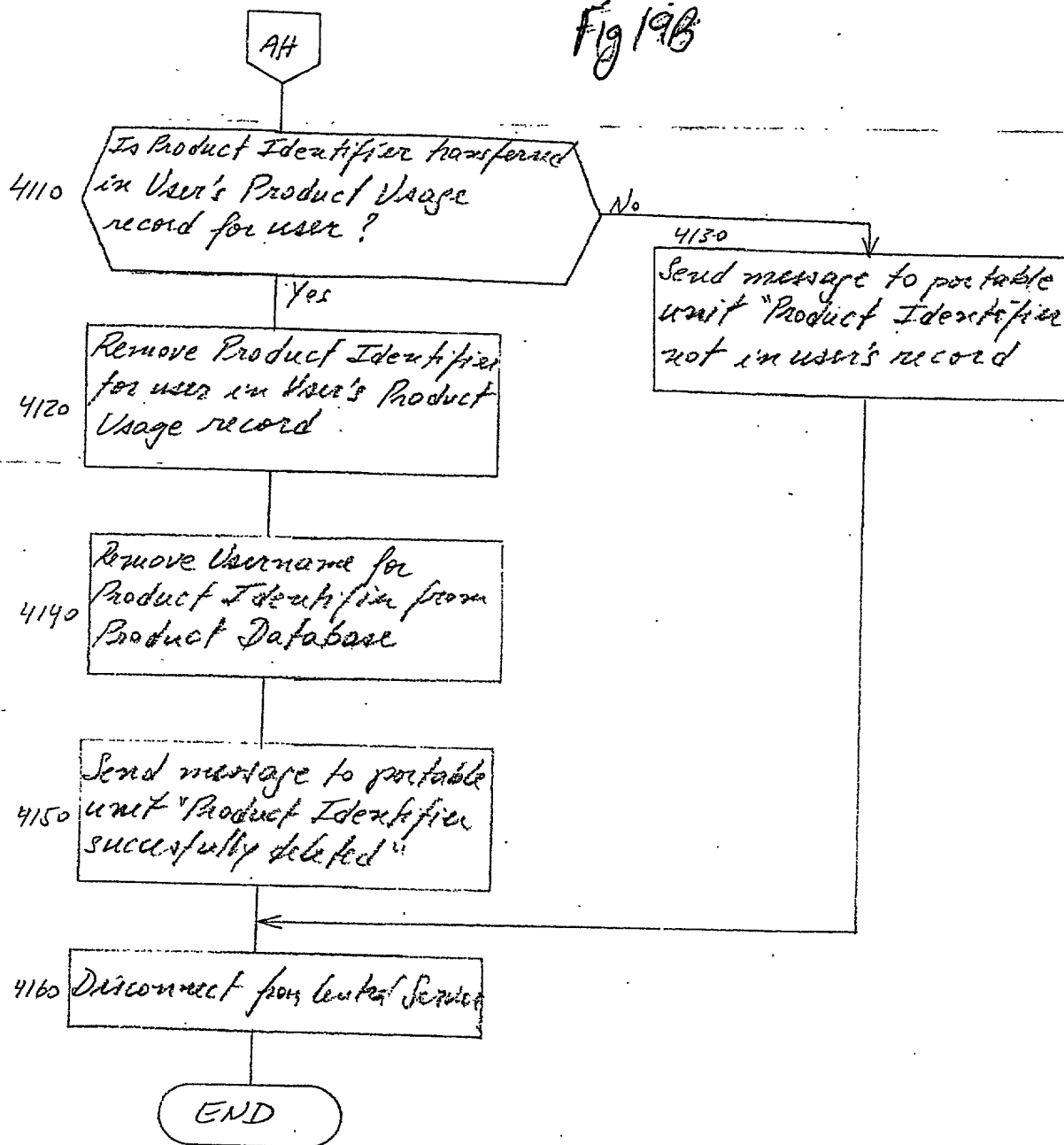
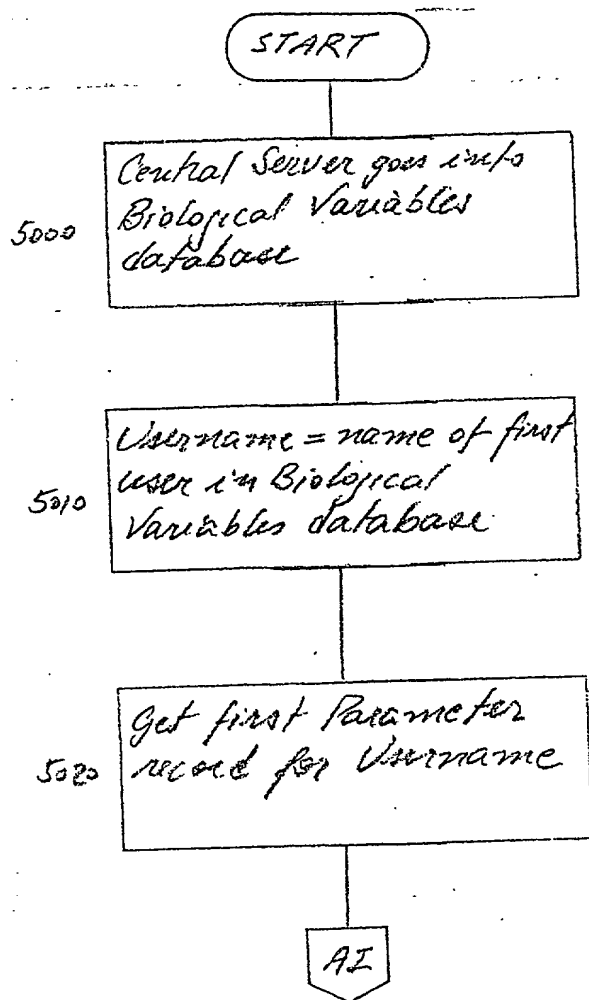


Fig 19B



00000-29886-600

Fig 20A



00000-250000

AI

5055

Send Message to user "Most recent Biological variable value is more than 1 year old"

Fig 20B

5030 From Parameter record get first value and time/date

5040 Is today's time/date minus time/date greater than one year?

Yes

5050 Is value last value in Parameter record?

Yes

No

5060 Remove value and time/date from Parameter record

5070 From Parameter record get next value and time/date

5080 Is Parameter record the last Parameter record for Username?

Yes

No

5090 Get next Parameter record for Username

5100 Is Username last user in Biological Variables database?

Yes

No

5110 Username = name of next user in Biological Variables database

5120 Go to step 5020

END

00000 2525200

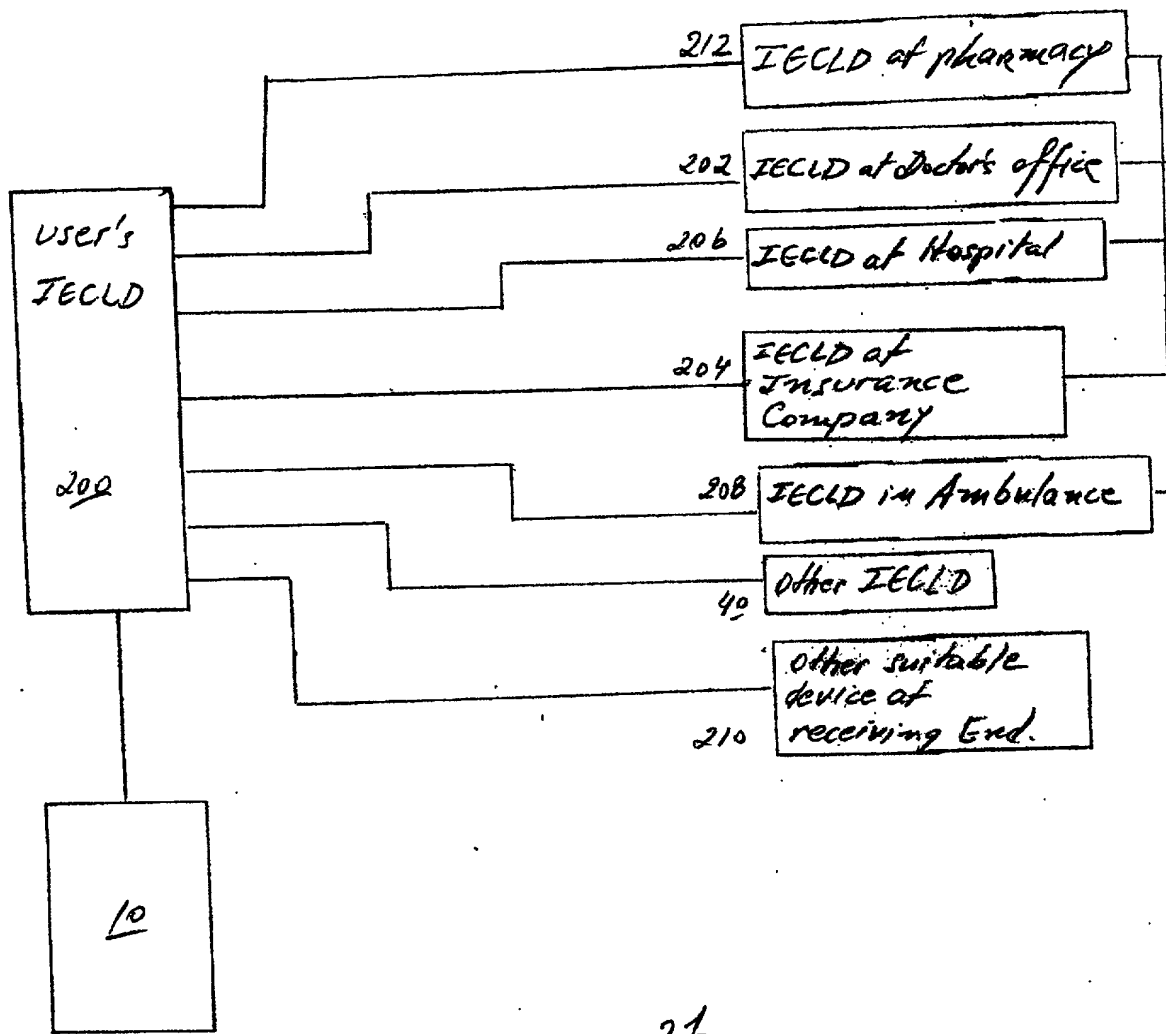


Fig 21